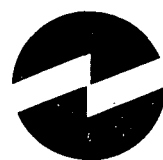


Docket # 50-286
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Date 11/30/82 of Document
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Indian Point 3 Nuclear Power Plant

Systems Interaction Study Report

Volume 11



**New York Power
Authority**

Indian Point 3 Nuclear Power Plant

Systems Interaction Study Report

Volume 11

COPY NUMBER 5



**New York Power
Authority**

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

NON-CONNECTED INTERACTIONS EVALUATION

1. No Interaction - Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
2. Acceptable - Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
3. Acceptable - Source has insufficient mass to damage the target component.
4. Acceptable - Basis is engineering judgement. Specific justification is on the evaluation form.
5. Potentially Unacceptable - Discussion of specific is on the evaluation form.
6. Potentially Unacceptable - Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
7. Potentially Unacceptable - Source will fall a sufficient distance, or has adequate mass such that damage to target conduit/box/instrument/tubing/panel may be possible.
8. No Interaction - Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82
R1 6/30/82
R0 6/26/82

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-128-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1207 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-129-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ x _____ POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-130-1

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow 2nd from the left bottom)

SOURCE: CONDUIT (White arrow on the top conduit connected to light is not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-130-2

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow 2nd from the left bottom)

SOURCE: LIGHT FIXTURE (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-130-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ x _____ POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-131-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1206 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

 ACCEPTABLE

 x POTENTIALLY
 UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-132-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

x POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-133-1

PHOTOGRAPH NO.: M287

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow on the bottom right)

SOURCE: CONDUIT (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 x ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

 Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

 W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-133-3

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

x
POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-134-2

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1205 (SOV-1205) (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-135-2

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ x _____ POTENTIALLY
UNACCEPTABLE

 Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

 W A:Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-136-2

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (not shown)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

x

_____ POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-136-4

PHOTOGRAPH NO.: M287

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow on the bottom center)

SOURCE: CONDUIT (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-136-6

PHOTOGRAPH NO.: M287

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (White arrow on the bottom center)

SOURCE: LIGHT FIXTURE (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-137-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (White arrow on the bottom center)

SOURCE: 8"-SCREENWASH HEADER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-137-5

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-138-4

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #34 (not shown)

SOURCE: CONDUIT (white arrow on the top conduit connected to light is not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-138-5

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #34 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

Jorge L. Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-1

PHOTOGRAPH NO.: M280

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (black arrow on the center)

SOURCE: TEMPORARY SPACE HEATER (white arrow 2nd from the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-140-3

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W.A. Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-141-1

PHOTOGRAPH NO.: M280

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #35 (white arrow on the top center)

SOURCE: TEMPORARY SPACE HEATER (white arrow 2nd from the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-141-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #35 (black arrow on the center right)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-141-3

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #35 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-142-2

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-1 (white arrow on the bottom center)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-143-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-143-2

PHOTOGRAPH NO.: M284

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-SWN-2 (not shown)

SOURCE: LIGHT FIXTURE (white arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
UNACCEPTABLE

 Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

 W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-144-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 14"-STRAINER #36 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~_____~~ POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-146-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1208 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-147-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-148-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (white arrow on the center left)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-148-3

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (white arrow on the center right)

SOURCE: CONDUIT (white arrow on the top conduit connected to light is not shown)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-148-4

PHOTOGRAPH NO.: M285

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (white arrow on the center right)

SOURCE: LIGHT FIXTURE (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-149-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1209 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-150-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-151-1

PHOTOGRAPH NO.: M283

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-152-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1210 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-153-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-64 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-154-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-65 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X POTENTIALLY
UNACCEPTABLE

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NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-155-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ ^X POTENTIALLY
UNACCEPTABLE

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NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-156-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-157-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-158-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-159-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (white arrow on the center)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-159-2

PHOTOGRAPH NO.: M289

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (black arrow on the top right)

SOURCE: Elec. Box (black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-160-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-160-2

PHOTOGRAPH NO.: M289

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-58 (white arrow on the center)

SOURCE: Elec. Box (black arrow on the center left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-161-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (white arrow on the bottom right)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-162-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-163-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLEX POTENTIALLY
UNACCEPTABLEJorge L. Rodriguez 8/9/82
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-164-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-58 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X
POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: SERVICE WATER VALVE PIT

POTENTIAL INTERACTION NO.: V-8-165-1

PHOTOGRAPH NO.: M286

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-9 (not shown)

SOURCE: 8"-SCREENWASH HEADER (black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (White arrow on the top)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

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SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (not shown)

SOURCE: DRAIN HEADER #3 (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

 ACCEPTABLE

 X

POTENTIALLY
 UNACCEPTABLE

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NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (not shown)

SOURCE: DRAIN HEADER #4 (white arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

Source falls into pump pit and may be drawn in by the pump suction. Further evaluation required.

_____ ACCEPTABLE

_____ X POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (Not Shown)

SOURCE: DRAIN HEADER #5 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-167-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #31 (Not Shown)

SOURCE: DRAIN HEADER #6 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-168-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #32 (Not Shown)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X ~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-168-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #32 (Black arrow on the top right)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-168-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #32 (Not Sh own)

SOURCE: DRAIN HEADER #3 (White arrow on the top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-168-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #32 (Not Shown)

SOURCE: DRAIN HEADER #5 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X
~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-168-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #32 (Not Shown)

SOURCE: DRAIN HEADER #6 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Not Shown)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X
~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold (/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-3

PHOTOGRAPH NO.: M296 8-80

BACKGROUND NO.: 8-20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Black arrow on the top center)

SOURCE: DRAIN HEADER #3 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>	X	<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
<hr style="border: none; border-top: 1px solid black; margin-top: 10px;"/>	<hr style="border: none; border-top: 1px solid black; margin-top: 10px;"/>	<hr style="border: none; border-top: 1px solid black; margin-top: 10px;"/>
Jorge L Rodriguez 8/9/82	W A Griswold 9/9/82	VERIFIED/DATE
INTERACTION ENGINEER/DATE		

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Not Shown)

SOURCE: DRAIN HEADER #4 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Not Shown)

SOURCE: DRAIN HEADER #5 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X
~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-169-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #33 (Not Shown)

SOURCE: DRAIN HEADER #6 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Not Shown)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Not Shown)

SOURCE: DRAIN HEADER #3 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Black arrow on the center right)

SOURCE: DRAIN HEADER #4 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X
POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Not shown)

SOURCE: DRAIN HEADER #5 (Black arrow on the top right).

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ ^X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-170-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #34 (Not Shown)

SOURCE: DRAIN HEADER #6 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

 X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not Shown)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X ~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not Shown)

SOURCE: DRAIN HEADER #3 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not Shown)

SOURCE: DRAIN HEADER #4 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Black arrow on the top right)

SOURCE: DRAIN HEADER #5 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

 ACCEPTABLE

 X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-171-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #35 (Not shown)

SOURCE: DRAIN HEADER #6 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-1

PHOTOGRAPH NO.: M294

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Not Shown)

SOURCE: DRAIN HEADER #1 (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in the pump suction.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-2

PHOTOGRAPH NO.: M295

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Not Shown)

SOURCE: DRAIN HEADER #2 (White arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-3

PHOTOGRAPH NO.: M296

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Not Shown)

SOURCE: DRAIN HEADER #3 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-4

PHOTOGRAPH NO.: M297

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Not Shown)

SOURCE: DRAIN HEADER #4 (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X ~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-5

PHOTOGRAPH NO.: M298

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Not shown)

SOURCE: DRAIN HEADER #5 (Black arrow on the bottom right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.
Further evaluation required.

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-172-6

PHOTOGRAPH NO.: M299

BACKGROUND NO.: 8-80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: WTR PUMP #36 (Black arrow on the top right)

SOURCE: DRAIN HEADER #6 (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls and damages target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source falls into pump pit and may be drawn in by the pump suction.

Further evaluation required.

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 35A

LOCATION WITHIN FIRE ZONE: A.C. EQUIPMENT ROOM

POTENTIAL INTERACTION NO.: V-8-18 -1

PHOTOGRAPH NO.: M265

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AC Unit #32 (White arrow on the top right)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 35A

LOCATION WITHIN FIRE ZONE: A.C. EQUIPMENT ROOM

POTENTIAL INTERACTION NO.: V-8-181-1

PHOTOGRAPH NO.: M265

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-109A (Black arrow on the center)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~_____~~ POTENTIALLY UNACCEPTABLE

Jorge L. Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W. A. Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-183-1

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: $\frac{1}{2}$ "-SWN-113B (Not Shown)

SOURCE: LIGHT FIXTURE (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-183-2

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-113B (Not Shown)

SOURCE: CONDUIT (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-183-3

PHOTOGRAPH NO.: M264

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-113B (Black arrow on the center right)

SOURCE: CONDUIT (Black arrow on the top Center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-184-1

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: ½"-SWN-113A (Not shown)

SOURCE: LIGHT FIXTURE (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-184-2

PHOTOGRAPH NO.: M263

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-113A (Not Shown)

SOURCE: CONDUIT (Black arrow on the center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:

LOCATION WITHIN FIRE ZONE: HALL OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-184-3

PHOTOGRAPH NO.: M264

BACKGROUND NO.: 8-66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1/2"-SWN-113A (Black arrow on the center left)

SOURCE: CONDUIT (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~_____~~ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176 (Black arrow on the center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176 (Black arrow on the center)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176 (Black arrow on the center)

SOURCE: SPEAKER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-185-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176 (Black arrow on the center left)

SOURCE: BOTTLES (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center right)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center right)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center right)

SOURCE: SPEAKER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-186-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 6"-SWN-FCV-1176A (White arrow on the center)

SOURCE: BOTTLES (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-187-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-69 (White arrow on the center left)
(2" VENT)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8;9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-187-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-69 (White arrow on the center left)
(2"-VENT)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE

_____ X

_____ POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-187-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-69 (White arrow on the center left)
(2"-VENT)

SOURCE: SPEAKER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZONE: VALVE ROOM
POTENTIAL INTERACTION NO.: V-8-188-4
PHOTOGRAPH NO.: M267
BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 10"-SWN-30 (White arrow on the center right)

SOURCE: BOTTLES (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER / DATE

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VERIFIED / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-189-4

PHOTOGRAPH NO.: M267

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 10"-SWN-29 (White arrow on the bottom right)

SOURCE: BOTTLES (Black arrow on the center right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-190-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94B (Black arrow on the bottom left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-190-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94B (Black arrow on the bottom left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-191-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1296 (Black arrow on the center left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-191-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1296 (Black arrow on the center left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-192-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108B (Black arrow on the bottom left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-192-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108B (Black arrow on the bottom left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has mass to damage target. Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-194-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94A (White arrow on the top 3rd from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-194-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94A (White arrow on the top 3rd from the left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further information required.

_____ ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-194-3

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-94A (White arrow on the top 3rd from the left)

SOURCE: SPEAKER (Black arrow on the top right)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-195-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1297 (White arrow on the top 2nd from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

 Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

 W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-195-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-SWN-PCV-1297 (White arrow on the top 2nd from the left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

ACCEPTABLE

X
POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-196-1

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108A (White arrow on the top 1st from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: V-8-196-2

PHOTOGRAPH NO.: M266

BACKGROUND NO.: 8-82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-108A (White arrow on the top 1st from the left)

SOURCE: SPACE HEATER (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass to damage target. Further evaluation required.

_____ ACCEPTABLE	X	_____ POTENTIALLY UNACCEPTABLE
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Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-198-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (Not shown)
($\frac{1}{2}$ " VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-199-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62F (Not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-200-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (Not shown)
(1/2" VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE:102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: v-8-201-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62E (Not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-202-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-63 (Not shown)
(3/4" SRV)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-203-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: LUBE OIL COOLER #33 (Not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-204-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: JACKET WATER COOLER #33 (Not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
 UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-205-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-75 (Not shown)
(1/2" VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-206-1

PHOTOGRAPH NO.: M269

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-67 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-207-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (not shown)
($\frac{1}{2}$ " VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

_____ ACCEPTABLE

_____ ~~_____~~ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-208-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62D (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-209-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (not shown)
(1/2" VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

_____ ACCEPTABLE

_____ x _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-210-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62C (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-211-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-63 (not shown)
(3/4" SRV)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

_____ x _____
POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE:101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-212-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: LUBE OIL COOLER #32 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-213-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: JACKET WATER COOLER #32 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

 Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER / DATE

 W A Griswold 9/9/82
VERIFIED / DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-214-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-75 (not shown)
(1/2" VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE	x	POTENTIALLY UNACCEPTABLE
Jorge L Rodriguez 8/9/82		W A Griswold 9/9/82
INTERACTION ENGINEER/DATE		VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-215-1

PHOTOGRAPH NO.: M270

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-67 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

 Jorge L Rodriguez 8/9/82
 INTERACTION ENGINEER/DATE

 W A Griswold 9/9/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-216-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (not shown)
($\frac{1}{2}$ " VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-217-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62A (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-218-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-63 (not shown)
(3/4" SRV)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswald 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-219-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: LUBE OIL COOLER #31 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: v-8-220-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: JACKET WATER COOLER #31 (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-221-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-77 (not shown)
($\frac{1}{2}$ " VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

_____ ACCEPTABLE x _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-222-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 4"-SWN-62B (not shown)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILDING

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-223-1

PHOTOGRAPH NO.: M271

BACKGROUND NO.: 8-76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-75 (not shown)
($\frac{1}{2}$ " VENT)

SOURCE: LIGHT FIXTURE (White arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

ACCEPTABLE x POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-225-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-27 (Black arrow on the bottom left corner)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x

ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-225-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-27 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-226-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-70 (White arrow on the bottom center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-226-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-70 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-227-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-86 (3/4" X 1" SRV) (White arrow on the bottom 3rd from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-227-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-86 (3/4" X 1" SRV) (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target.
Further evaluation required.

_____ ACCEPTABLE	x	_____ POTENTIALLY UNACCEPTABLE
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 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-228-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH NO 32 (White arrow on the center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

<p>x _____ ACCEPTABLE</p>	<p>_____ POTENTIALLY UNACCEPTABLE</p>
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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-228-2

PHOTOGRAPH NO.: M261

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH NO 32 (White arrow on the bottom left)

SOURCE: LIGHT FIXTURE (White arrow on the top right corner)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x

ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-228-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH NO 32 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-229-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-28 (White arrow on the bottom 2nd from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-229-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2 1/2" - SWN-28 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-230-1

PHOTOGRAPH NO.: M259

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-87 (White arrow on the center left)

SOURCE: CONDUIT (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
 INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-230-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-87 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE:14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-231-1

PHOTOGRAPH NO.: M259

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-87 (White arrow on the center right)

SOURCE: CONDUIT (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-231-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-87 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-232-1

PHOTOGRAPH NO.: M259

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½"-SWN-TCV-1113 (Black arrow on the center)

SOURCE: CONDUIT (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-232-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 1½"-SWN-TCV-1113 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation, required.

_____ ACCEPTABLE

_____ x _____ POTENTIALLY UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-233-1

PHOTOGRAPH NO.: M259

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-47 (Black arrow on the top right corner)

SOURCE: CONDUIT (Black arrow on the top center)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x

ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-233-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 3"-SWN-47 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-234-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-28 (White arrow on the top left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-235-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-27 (White arrow on the center left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

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INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-235-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-27 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-236-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-70 (Black arrow on the center left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 x ACCEPTABLE

 POTENTIALLY
UNACCEPTABLE

 Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-236-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2½"-SWN-70 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-237-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-86 (Black arrow on the top 2nd from the left)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-237- 3

PHOTOGRAPH NO.: M262

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SWN-86 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 5

Source has adequate mass and will fall a sufficient distance to damage target. Further evaluation required.

ACCEPTABLE

x

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82

INTERACTION ENGINEER/DATE

W A Griswold 9/9/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-238-1

PHOTOGRAPH NO.: M260

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH. #31 (Black arrow on the center)

SOURCE: CONDUIT (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x _____ ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

Jorge L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-238-2

PHOTOGRAPH NO.: M261

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH. #31 (Black arrow on the center left)

SOURCE: LIGHT FIXTURE (White arrow on the top right corner)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

Jorge L Rodriguez 8/9/82

W A Griswold 9/9/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: CONTROL BUILDING

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-238-3

PHOTOGRAPH NO.: M262

BACKGROUND NO.: 8-67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: COOLING WATER HT. EXCH. #31 (not shown)

SOURCE: STATION AIR HEADER (Black arrow on the top left)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

x

ACCEPTABLE

POTENTIALLY
UNACCEPTABLE
Jorge L Rodriguez 8/9/82
 INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-1

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)
(AIR OPERT)

SOURCE: 2"-261 (BLACK ARROW ON THE CENTER 4TH FROM THE BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~_____~~ POTENTIALLY
~~_____~~ UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-2

PHOTOGRAPH NO.: M426

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM RIGHT)
(AIR OPERT)

SOURCE: 1"-261 (BLACK ARROW ON THE LEFT 2ND FROM THE BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-3

PHOTOGRAPH NO.: M426

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM RIGHT)
(AIR OPERT)

SOURCE: 1"-191 (BLACK ARROW ON THE LEFT 3RD FROM THE BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
 UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-4

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)
(AIR OPERT)

SOURCE: 2"-WASTE DISPOSAL LINE (BLACK ARROW ON THE TOP CENTER)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET .

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-5

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)
(AIR OPERT)

SOURCE: 1"-262 (BLACK ARROW ON THE TOP LEFT)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-6

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)
(AIR OPERT)

SOURCE: 1"-VLV-1780 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND
INDTRUMENTATION)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-239-7

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-RCV-018 (BLACK ARROW ON THE BOTTOM CENTER)
(AIR OPERT)

SOURCE: 1"-VLV-1779 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND
INSTRUMENTATION)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-1

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 2"-261 (BLACK ARROW ON THE CENTER 4TH FROM THE BOTTOM)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-2

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 2"-WASTE DISPOSAL LINE (BLACK ARROW ON THE TOP CENTER)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-3

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 1"-262 (BLACK ARROW ON THE TOP LEFT)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-4

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 1"-VLV-1780 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND INSTRUMENTATION)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 63A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: V-8-240-5

PHOTOGRAPH NO.: M425

BACKGROUND NO.: 8-43

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: 2"-WD-1785 (BLACK ARROW ON THE CENTER 3RD FROM THE BOTTOM)

SOURCE: 1"-VLV-1779 (BLACK ARROW 2ND FROM THE TOP LEFT VLV BEHIND INSTRUMENTATION)

DESCRIPTION OF POSTULATED INTERACTION:

SOURCE FALLS ON TARGET

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
~~UNACCEPTABLE~~

J L Rodriguez 8/9/82
INTERACTION ENGINEER/DATE

W A Griswold 9/9/82
VERIFIED/DATE

Postulated Failure Modes

MECHANICAL FAILURES

- M - 1 Ruptured Pipe or Tube
- M - 2 Crimped or Collapsed Pipe or Tube
- M - 3 Loss of Function (Pump, Fan, Blowers etc.)
- M - 4 Loss of Valve Motive Power
- M - 5 Failure of or damage to Valve Actuating Mechanism
- M - 6 Other (Explain)

ELECTRICAL FAILURES

- E - 1 Open Circuit
- E - 2 Short Circuit
- E - 3 Other (Explain)

INSTRUMENTATION & CONTROL FAILURES

- C - 1 Fail High
- C - 2 Fail Low
- C - 3 Fail Open
- C - 4 Fail Closed
- C - 5 Loss of Motive Power
- C - 6 Other (Explain)

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
FMEA PREPARATION

SYSTEM NO 8

SYSTEM NAME Service Water

FMEA CATEGORY

NON-CONNECTED _____

INTERCONNECTED X

L. Cerra 5-18-83
PREPARED BY/DATE

L. Ruggieri 5/31/83
CHECKED BY/DATE

W. Griswold 6-1-83
VERIFIED BY/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-1A

Interaction Number(s): 8-M-1

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

8"-SWN-5 Normally closed butterfly valve. Located off nuclear service water line number 408. Valve is opened if conventional service water pumps 31, 32, and 33 are lost. Valve serves as a boundary between Categories I and III.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) A break in the non-seismic piping downstream of the valve will not affect the service water system since, the valve is normally closed.

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-2A

Interaction Number(s): 8-M-2

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

8"-SWN-4 Normally open butterfly valve. Located off conventional service water line number 409. Conventional service water pumps are backup for nuclear service water pumps. Valve is the category boundary between Categories I and III.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) A break downstream of the valve would not be indicated in the control room, nor would the valve be able to be remotely or automatically closed. Should the conventional pumps replace the nuclear service water pumps available flow may not be sufficient.

Acceptable

X / 1 () 2 (X) 3 () 4 (X)
Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-3A

Interaction Number(s): 8-M-3

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

16" FCV-1111 Control valve for 16" header to non-essential services.
May be fully open or closed. Valve position depends on service water
pump operation. Valve and piping are Category I, but are located in a
valve pit which contains non-seismic piping.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) A break or rupture in the line would allow undetected flow from the
service water system.

	X	/ 1 () 2 (X) 3 () 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
L Cerra 5/18/83	T P Ruggiero 5/31/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-4A

Interaction Number(s): 8-M-4

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

16-FCV-1112

Refer to FMEA 8-M-3

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Refer to FMEA 8-M-3

	X	/ 1 (X) 2 (X) 3 () 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
L Cerra 5/18/83	T P Ruggiero 5/31/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-5A

Interaction Number(s): 8-M-5

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

10" - SWN-6 Butterfly valve to essential conventional plant services from nuclear service water pumps discharge. Valve and piping is Category I, however, line is located in a valve pit which has non-seismic piping in it.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) An undetected loss of service water could occur should a seismic event collapse portions of the non-seismic structure and rupture the line subject valve isolates. The valve cannot be automatically or remotely operated.

<hr/>	X	/	1 ()	2 (X)	3 ()	4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected					
<hr/>	<hr/>					
L Cerra 5/18/83	T P Ruggiero 5/31/83					
EVALUATING ENGINEER/DATE	CHECKED/DATE					

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-6A

Interaction Number(s): 8-M-6

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

10"-SWN-7 Butterfly valve to essential conventional plant services from nuclear pumps discharge line. Valve is used to allow conventional service water pumps supply to replace nuclear pumps.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Refer to interconnected FMEA 8-M-15.

Acceptable / X / 1 (X) 2 (X) 3 () 4 (X)
Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-7A

Interaction Number(s): 8-M-9

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

6"-SWN-53 Gate valve on blowdown tank outlet. Valve is normally open and hand operated. Valve is class break for Category I and III piping.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Valve is located on a branch to the discharge header of service water header, loss of the line will not require isolation, or affect service water requirements.

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83 / T P Ruggiero 5/31/83
EVALUATING ENGINEER/DATE CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-8A

Interaction Number(s): 8-M-10

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

6"-SWN-54 Gate valve on drain line from blowdown tank. Normally closed valve, also serves as class break between Category I and III.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Refer to interconnected FMEA 8-M-7A

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>L Cerra 5/18/83</u>	<u>T P Ruggiero 5/31/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-9A

Interaction Number(s): 8-M-11

Fire Zone: N/A

Target Component(s)
Number, Description & Function:

2"-WD-1785 Normally open diaphragm valve on discharge line from waste condensate pumps. Line leads into service water discharge header.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Refer to interconnected to FMEA 8-M-7A. Evaluation similar to 8-M-7A.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

L Cerra 5/18/83
EVALUATING ENGINEER/DATE

T P Ruggiero 5/31/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
FMEA PREPARATION

SYSTEM NO 8

SYSTEM NAME Service Water System

FMEA CATEGORY

NON-CONNECTED X

INTERCONNECTED _____

Raj G. Chopra 2/25/83
PREPARED BY/DATE

L. P. Ruggiero, Jr. 3/25/83
CHECKED BY/DATE

W. A. Griswold 4-25-83
VERIFIED BY/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-1

Interaction Number(s): L-8-102-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

6"-SWN-390; Line from Blowdown Tank #31 to S W Return Header Line #405.
Return Line to Discharge Channel.

Postulated Failure Mode(s)
and Evaluation:

*M-1-(A)

Line has no safety function.

M-2-(A)

* Failure of source (Blowdown Tank #31) & rupture of target will cause
flooding in the Blowdown Tank area.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-2

Interaction Number(s): L-8-103-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

3"-SWN-697; Line from Blowdown Tank to Discharge Line #390. Tank Clean-out
drain.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Target Line has no safety function.
M-2-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-3

Interaction Number(s): L-8-116-1
L-8-116-2

Fire Zone: 1 (PAB)

Target Component(s)
Number, Description & Function:

3/4" Sampling Line.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A)

Target Line has no safety function. Line is for sampling off the
discharge line 24" #405 which discharges to the channel.

M-2-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-4

Interaction Number(s): L-8-119-2
L-8-119-3

Fire Zone: 68A

Target Component(s)
Number, Description & Function:

2"-WD-263; Line from Waste Condensate Pumps (via Line #261) to Line #405
leading to discharge channel.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A)

Target performs no safety function. Target line is a discharge line
leading ultimately to the discharge channel.

M-2-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

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FMEA NUMBER: 8-M-5

Interaction Number(s): L-8-123-3
L-8-123-4

Fire Zone: 17A

Target Component(s)
Number, Description & Function:

3/4" Sampling Line (From S W Pumps via lines #407 & 411 to the sample Cooler.
Valve PCV 1271 is on the target line).

Postulated Failure Mode(s)
and Evaluation:

- M-1-(A) Target performs no safety function. (Target line is a sampling line,
leading to sampling Cooler inlet).
- M-2-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

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FMEA NUMBER: 8-M-6

Interaction Number(s): L-8-206-2

Fire Zone: 62A

Target Component(s)
Number, Description & Function:

2"-SWN-11; From S W Headers Line #408 & 409 to discharge header #405 via
mixing nozzle & discharge line 18" #406.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A)

The target discharges into the S W Discharge header (to Discharge
Channel). It performs no safety function.

M-2-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

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FMEA NUMBER: 8-M-7

Interaction Number(s): L-8-215-2

Fire Zone: Intake Str (S W Valve Pit)

Target Component(s)
Number, Description & Function:

14"-SWN-1083 Line from S W Pump #33 discharge to Line #409.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P)

Interaction results in loss of pump #33 which affects S W System
Capability.

M-2-(P)

	X	/ 1 (X)	2 (X)	3 (X)	4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected				

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FMEA NUMBER: 8-M-8

Interaction Number(s): L-8-216-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

14"-SWN-1082; Line from S W Pump #32 discharge to Line #409 (24" S W Line).

Postulated Failure Mode(s)
and Evaluation:

M-1-(P)

Interaction will result in loss of Pump #32 which affects S W System Capability.

M-2-(P)

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-9

Interaction Number(s): L-8-218-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1083; Strainer backwash line for S W pump #33 strainer.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Pipe break results in no adverse effect on safety function. Backwash water from target line will spill instead of normally discharging to 8" screenwash line.

M-2-(A) Crimping of target line results in no immediate adverse effect on safety function. (Automatic backwashing capability of the strainers will be affected. However, sufficient time is postulated to permit backwashing the strainers).

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-10

Interaction Number(s): L-8-219-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1082; Strainer backwash line for S W Pump #32 Strainer.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-9

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

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FMEA NUMBER: 8-M-11

Interaction Number(s): L-8-220-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1081; Strainer backwash line for S W Pump #31 Strainer.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-9

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-12

Interaction Number(s): L-8-222-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

14"-SWN-1085; Line from S W Pump #35 Discharge to S W Header 24" #408.

Postulated Failure Mode(s)
and Evaluation:

P-1-(P)

Interaction will result in loss of Pump #35 which affects S W System
Capability.

P-2-(P)

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-13

Interaction Number(s): L-8-224-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1084; Strainer backwash line for S W Pump #34 Strainer.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-9

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

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FMEA NUMBER: 8-M-14

Interaction Number(s): L-8-225-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1085; Strainer backwash line for S W Pump #35 Strainer.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-9

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Chopra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-15

Interaction Number(s): L-8-226-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-1086; Strainer backwash line for S W Pump #36 Strainer.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-9

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Chopra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-16

Interaction Number(s): L-8-227-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1081; Automatic Vent Line off S W Pump #31 discharge line 14" #1081.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Results in adverse effect on S W System capability due to loss of S W
From 14" line.

M-2-(A) No effect on S W System safety function since there is no loss of
fluid and the target performs no safety function.

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-17

Interaction Number(s): L-8-228-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1082; Automatic Vent Line off S W Pump #32 discharge line 14" #1082.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA # 8-M-16

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-18

Interaction Number(s): L-8-229-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1083; 3" Automatic Vent Line off S W Pump #33 discharge header 14"
#1083.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-16

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-19

Interaction Number(s): L-8-230-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1084; Automatic Vent Line off S W Pump #34 discharge line 14" #1084.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-16

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-20

Interaction Number(s): L-8-231-1

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

3"-SWN-1085; Automatic Vent Line off S W Pump #35 discharge line 14" #1085.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-16

	X	/ 1 (X)	2 (X)	3 (X)	4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected				
R Chopra 2/25/83	T P Ruggiero 3/25/83				
EVALUATING ENGINEER/DATE	CHECKED/DATE				

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FMEA NUMBER: 8-M-21

Interaction Number(s): L-8-232-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-1086; Automatic Vent Line off S W Pump #36 discharge line 14" #1086.

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-16

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-22

Interaction Number(s): L-8-248-2

Fire Zone: 36A (Valve Room)

Target Component(s)
Number, Description & Function:

3"-SWN-1223; From S W Pumps (via lines 409 & 1093) to Control Bldg Air
Conditioner #31 Condenser.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Control Room habitability affected by possible loss of service water.
M-2-(P)

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

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FMEA NUMBER: 8-M-23

Interaction Number(s): L-8-249-2

Fire Zone: 36A (Valve Room)

Target Component(s)
Number, Description & Function:

3"-SWN-1224; Line from S W Pumps (via lines 408 & 1099) to Control Bldg
Air Cond #32 Condenser.

Postulated Failure Mode(s)
and Evaluation:

- M-1-(P) Control Room Habitability affected by possible loss of service water.
- M-2-(P)

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-24

Interaction Number(s): V-8-11-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

6"-SWN-53; 6" Valve on line #390 which discharges to the discharge header 24"
#405 leading to discharge channel.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Valve is hand operated, normally open and performs no safety function.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-25

Interaction Number(s): V-8-12-7

Fire Zone: 79A

Target Component(s)
Number, Description & Function:

3"-SWN-54; Valve, normally closed, on line 3"-697 (runs from blowdown tank to Discharge line #390 for Tank Cleanout).

Postulated Failure Mode(s)
and Evaluation:

M-4-(A) Valve and related line #697 have no safety function.
M-5-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-26

Interaction Number(s): V-8-17-1

Fire Zone: 1

Target Component(s)
Number, Description & Function:

PCV-1271: 3/4" SWN Valve, normally open, on 3/4" sampling line from S W Pumps
via lines 407 & 411 to sample cooler.

Postulated Failure Mode(s)
and Evaluation:

M-(5)-(A) Target performs no safety function.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-27

Interaction Number(s): V-8-18-2

Fire Zone: 17A

Target Component(s)
Number, Description & Function:

3/4"-SWN-37; Inst (PI1277) Conn Valve. Valve on PI instrument line off S W line 18" #407 serving component cooling heat exchanger #32. Break of the line is also postulated.

Postulated Failure Mode(s)
and Evaluation:

- M-1(P) 3/4" line break (off an 18" S W Line) could be potentially unacceptable since it would result in partial loss of fluid from 18" S W line. Comp cooling function affected.
- M-2(A) No loss of fluid. No safety function affected.
- M-5(A) No loss of fluid. No safety function affected.

	<u>X</u>	<u>/</u>	<u>1 ()</u>	<u>2 ()</u>	<u>3 (X)</u>	<u>4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected					
R Chopra 2/25/83	T P Ruggiero 3/25/83					
EVALUATING ENGINEER/DATE	CHECKED/DATE					

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FMEA NUMBER: 8-M-28

Interaction Number(s): V-8-45-1
V-8-45-2

Fire Zone: Yard

Target Component(s)
Number, Description & Function:

1/2" Root Valves (2 valves) on 1/2" line off the Conventional Plant Services line 16" #1219 (which is off S W line 24" #409).

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Based on engineering judgement, the loss of Conventional Service Water from 1/2" line described above would not have an adverse effect on any safety function since the target line performs no safety function and sufficient S W will still be available should it be needed.

M-2-(A) Line & valve have no safety function. No loss of fluid.

M-5-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-29

Interaction Number(s): V-8-48-1
V-8-48-2

Fire Zone: Yard; Valve pit for Turbine Oil Coolers etc

Target Component(s)
Number, Description & Function:

1/2" Root Valves (2 Valves); On 1/2" line off the Conventional Plant Services
Line 16" #1220 (which is off S W Line 24" #408).

Postulated Failure Mode(s)
and Evaluation:

SEE FMEA 8-M-28

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-30

Interaction Number(s): V-8-66-1
V-8-66-2

Fire Zone: 59A

Target Component(s)
Number, Description & Function:

1/2"-SWN-72 (Instr Conn Valves, quantity: 2)
Valves on instrument FT-1125 lines; on discharge side of Cont
Recirc Fan #35 Coil cooling line discharging to Discharge Channel
thru line 18" #406. Instr line break is also considered.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A) Target valves and line perform no safety function. Loss of water
permissible since the lost water normally discharges to the discharge
channel.

M-5-(A)

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-31

Interaction Number(s): V-8-113-1

Fire Zone: 62A

Target Component(s)
Number, Description & Function:

2"-SWN-60; Valve on S W line 2" #11 off S W line 18" #409. Leads to inlet of mixing nozzles. Provides cooling water for mixing with the recirc fans cooling discharge water.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Valve performs no safety function. Flow through valve discharges to the discharge channel.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

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FMEA NUMBER: 8-M-32

Interaction Number(s): V-8-123-1

Fire Zone: Intake Str (SW Valve Pit)

Target Component(s)
Number, Description & Function:

14" Strainer #32 for S W Pump #32

Postulated Failure Mode(s)
and Evaluation:

M-1-(P)

Loss of pump #32 function. S W availability affected.

M-2-(P)

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Chopra 2/25/83	T P Ruggiero 3/25/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

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FMEA NUMBER: 8-M-33

Interaction Number(s): V-8-128-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-PCV-1207 (SOV-1207) Valve on the Pump Discharge Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

- M-4-(A) Following interaction, valve in open position results in no adverse
- M-5-(A) effect on safety function. Valve in closed position will also have no immediate effect on safety function. (Automatic backwashing capability of the strainers will be affected). However sufficient time is postulated to permit backwashing the strainer.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-34

Interaction Number(s): V-8-129-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-64 2" Valve, normally open, on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Interaction results in no adverse effect on safety, since the valve performs no safety function.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-35

Interaction Number(s): V-8-130-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2-SWN-65 2" Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
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FMEA NUMBER: 8-M-36

Interaction Number(s): V-8-131-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1206 (SOV-1206) Valve on Pump #32 Strainer backwash line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

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FMEA NUMBER: 8-M-37

Interaction Number(s): V-8-132-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-38

Interaction Number(s): V-8-133-3

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected

<u>R Chopra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-39

Interaction Number(s): V-8-134-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1205 (SOV-1205) Valve on Pump #31 Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-33

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-40

Interaction Number(s): V-8-135-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-41

Interaction Number(s): V-8-136-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-42

Interaction Number(s): V-8-146-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1208 (SOV-1208) Valve on Pump #34 Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-33

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-43

Interaction Number(s): V-8-147-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-44

Interaction Number(s): V-8-148-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 2" Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Chopra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-45

Interaction Number(s): V-8-149-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1209 (SOV-1209) Valve on Pump #35 Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-33

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-46

Interaction Number(s): V-8-150-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Chopra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-47

Interaction Number(s): V-8-151-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 Normally Open on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-48

Interaction Number(s): V-8-152-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1210 (SOV-1210) Valve on Pump #36 Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-33

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-49

Interaction Number(s): V-8-153-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-64 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-50

Interaction Number(s): V-8-154-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

2"-SWN-65 Normally Open Valve on S W Pump Strainer Backwash Line.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-34

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-51

Interaction Number(s): V-8-155-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Vacuum Breaker Valve off 14" S W Header 1081.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Valve mechanism is internal to the valve hence valve function is postulated to be unaffected.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

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FMEA NUMBER: 8-M-52

Interaction Number(s): V-8-156-1

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header). Rupture of 1/2" Line also considered.

Postulated Failure Mode(s)
and Evaluation:

- M-5-(A) System Safety Function not effected by malfunction of Instr Conn Valve
- M-2-(A) or
- M-1-(P) Loss of Service Water from ruptured line occurs.

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-53

Interaction Number(s): V-8-157-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 Automatic Vent Valve for line 1082.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) See FMEA 8-M-51.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-54

Interaction Number(s): V-8-158-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve on Instr Conn Line off 3" Automatic Vent
Valve Line (off 14" S W Header) rupture of 1/2" line also
considered.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-55

Interaction Number(s): V-8-159-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve and Inlet Valve off 14" S W Header 1083.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) See FMEA 8-17-51.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-56

Interaction Number(s): V-8-160-1
V-8-160-2

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-57

Interaction Number(s): V-8-161-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1084.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-51

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-58

Interaction Number(s): V-8-162-1

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-52

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-59

Interaction Number(s): V-8-163-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1085.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-51

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-60

Interaction Number(s): V-8-164-1

Fire Zone: S W Valve Pit

Target Component(s)

Number, Description & Function:

1/2"-SWN-58 Normally Open Valve, on Instr Conn Line off 3" Automatic Vent Valve Line (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-52

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-61

Interaction Number(s): V-8-165-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

3"-SWN-9 3" Automatic Vent Valve off 14" S W Header 1086.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-51

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-62

Interaction Number(s): V-8-166-1

Fire Zone: S W Valve Pit

Target Component(s)
Number, Description & Function:

1/2"-SWN-58 Normally Open Valve on Instr Conn Line off 3" Automatic Vent Valve (off 14" S W Header) rupture of 1/2" Line also considered.

Postulated Failure Mode(s)
and Evaluation:

See FMEA 8-M-52

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Chopra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-63

Interaction Number(s): V-8-167-1, V-8-167-2,
V-8-167-3, V-8-167-4
V-8-167-5, V-8-167-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #31

Postulated Failure Mode(s)
and Evaluation:

M-3-(P) Loss of function of the pump (due to suction of drain header
debris into the pump) will affect SW system capability.

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-64

Interaction Number(s): V-8-168-1, V-8-168-2,
V-8-168-3, V-8-168-4
V-8-168-5, V-8-168-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #32

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-63

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Copra 2/25/83	T P Ruggiero 3/25/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-65

Interaction Number(s): V-8-169-1, V-8-169-2,
V-8-169-3, V-8-169-4
V-8-169-5, V-8-169-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #33

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-63

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
 R Copra 2/25/83		 T P Ruggiero 3/25/83
EVALUATING ENGINEER/DATE		CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-66

Interaction Number(s): V-8-170-1, V-8-170-2,
V-8-170-3, V-8-170-4
V-8-170-5, V-8-170-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #34

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-63

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-67

Interaction Number(s): V-8-171-1, V-8-171-2,
V-8-171-3, V-8-171-4
V-8-171-5, V-8-171-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #35

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-63

	X	/	1 (X)	2 (X)	3 (X)	4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected					
R Copra 2/25/83	T P Ruggiero 3/25/83					
EVALUATING ENGINEER/DATE	CHECKED/DATE					

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-68

Interaction Number(s): V-8-172-1, V-8-172-2,
V-8-172-3, V-8-172-4
V-8-172-5, V-8-172-6

Fire Zone: 22

Target Component(s)
Number, Description & Function:

Service Water Pump #36

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-63

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Copra 2/25/83	T P Ruggiero 3/25/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-69

Interaction Number(s): V-8-185-2
V-8-185-4

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

6"-SWN-FCV-1176 (SOV) 6" Control Valve on the discharge side of jacket water coolers & L O Coolers, on line 10" #1096 discharging to 24" header #405

Postulated Failure Mode(s)
and Evaluation:

M-4-(A) Valve goes full open on loss of motive power. No effect on safety function.

M-5-(P) Failure of valve mechanism may not permit valve to open.

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-70

Interaction Number(s): V-8-186-2
V-8-186-4

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

6"-SWN-FCV-1176 (SOV) 6" Control Valve on the discharge side of Jacket Water Coolers
& L O Coolers, on line 10" #1096, discharging to 24" header
#405

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-69

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-71

Interaction Number(s): V-8-187-2

Fire Zone: 36A (DG Bldg)

Target Component(s)
Number, Description & Function:

SWN-69 2" Check Valve on vent line off the 10" #1096 on discharge side of D G Cooling, 10" #1096 line discharges to discharge channel via discharge header 24" #405. Rupture of vent line also considered.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A)
M-2-(A) Valve and line perform no safety function
M-3-(A)

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-72

Interaction Number(s): V-8-190-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-94B Stop valve, normally open on line 3" - 1223 (subject of FMEA #8-M-22 interaction #L-8-248-2), on inlet to Control Bldg AC #31 condenser.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Failure of activating mechanism of normally open valve does not affect safety function. Rupture of line is unacceptable and is treated in a separate FMEA.

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Copra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-73

Interaction Number(s): V-8-191-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

2"-SWN-PCV-1296 2" normally open PCV on line 3" - 1223 (subject of FMEA #8-M-22 for interaction #L-8-248-2), inlet line to Control Bldg AC #31 Condenser.

Postulated Failure Mode(s)
and Evaluation:

M-4)

(P) If the valve fails open, the interaction is acceptable. The valve

M-5) failed - close will affect habitability of Control Room.

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83

EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83

CHECKED/DATE

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FMEA NUMBER: 8-M-74

Interaction Number(s): V-8-192-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-108B Stop valves, normally open, on cooling line 3" - 1223 at inlet
of AC Unit #31 Condensers.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-72

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-75

Interaction Number(s): V-8-194-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-94A Stop valve, normally open on line 3" #1224 (subject of FMEA #8-M-23 for interaction #L-8-249-2) on inlet to Control Bldg AC #32 Condenser.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-72

<u>X</u>	<u>/ 1 () 2 () 3 () 4 ()</u>
Acceptable	Potentially Unacceptable/Safety Function Affected
<u>R Copra 2/25/83</u>	<u>T P Ruggiero 3/25/83</u>
EVALUATING ENGINEER/DATE	CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-76

Interaction Number(s): V-8-195-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3-SWN-PCV-1297 2" normally open PCV on line 3" - 1224 (subject of FMEA
#8-M-23 for interaction #L-8-249-2) inlet line to Control Bldg
AC #32 Condenser.

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-73

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-77

Interaction Number(s): V-8-196-2

Fire Zone: 36A

Target Component(s)
Number, Description & Function:

3"-SWN-108A

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-75

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-78

Interaction Number(s): V-8-198-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-77 1/2" valve on vent connection to 6" inlet cooling water line to
(Vent) diesel generator. Venting valve. Rupture of vent line also
considered.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Rupture of line results in loss of DG cooling water from 1/2"
target line.

M-5-(A) Valve malfunction in closed position does not affect safety function.

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-79

Interaction Number(s): V-8-200-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-78

Acceptable X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-80

Interaction Number(s): V-8-202-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-63 3/4" Relief valve for 6" inlet cooling water line to diesel generator.
Rupture of its connection to 6" line is also considered.

Postulated Failure Mode(s)
and Evaluation:

M-1-(P) Results in loss of DG cooling water from the target.

M-5-(A) Valve malfunction in closed position does not affect safety function.

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Copra 2/25/83	T P Ruggiero 3/25/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-81

Interaction Number(s): V-8-205-1

Fire Zone: 102A

Target Component(s)
Number, Description & Function:

SWN-75 1/2" valve on vent connection to 6" cooling water return header from
(Vent) diesel generator. Return header discharges to discharge channel.
Rupture of 1/2" conn is also considered.

Postulated Failure Mode(s)
and Evaluation:

M-1-(A)

Valve and line perform no safety function.

M-5-(A)

X / 1 () 2 () 3 () 4 ()
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

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FAILURE MODES AND EFFECTS ANALYSIS
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FMEA NUMBER: 8-M-82

Interaction Number(s): V-8-207-1

Fire Zone: 101A

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-78

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Copra 2/25/83	T P Ruggiero	3/25/83
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
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OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-83

Interaction Number(s): V-8-209-1

Fire Zone: 101A

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-78

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-84

Interaction Number(s): V-8-211-1

Fire Zone:

Target Component(s)
Number, Description & Function:

SWN-63 See FMEA #8-M-80

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-80

	X	/ 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable	Potentially Unacceptable/Safety Function Affected	
R Copra 2/25/83	T P Ruggiero 3/25/83	
EVALUATING ENGINEER/DATE	CHECKED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-85

Interaction Number(s): V-8-214-1

Fire Zone: 101-A

Target Component(s)
Number, Description & Function:

SWN-75 See FMEA #8-M-81
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-81

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
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OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-M-86

Interaction Number(s): V-8-216-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-78

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-87

Interaction Number(s): V-8-218-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-63 See FMEA #8-M-80
(SRV)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-80

Acceptable

X / 1 (X) 2 (X) 3 (X) 4 (X)

Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
CHECKED/DATE

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FMEA NUMBER: 8-M-88

Interaction Number(s): V-8-221-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-77 See FMEA #8-M-78
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-78

Acceptable

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
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FMEA NUMBER: 8-M-89

Interaction Number(s): V-8-223-1

Fire Zone: 10

Target Component(s)
Number, Description & Function:

SWN-75 See FMEA #8-M-81
(Vent)

Postulated Failure Mode(s)
and Evaluation:

See FMEA #8-M-81

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-90

Interaction Number(s): V-8-227-3

Fire Zone: 14

Target Component(s)
Number, Description & Function:

SWN-86 Relief valve off 3" inlet line (3" #1197) feeding the Instrument
(3/4" x 1") Air Cooling Water Heat Exchanger #32. To protect HXR from over
pressurization.

Postulated Failure Mode(s)
and Evaluation:

M-5-(A) Jamming of valve in closed position does not affect safety function
M-1-(P) (should rupture of the valve connection to the 3" line be considered,
there will be loss of cooling water affecting control room
habitability).

_____ X / 1 (X) 2 (X) 3 (X) 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
EVALUATING ENGINEER/DATE

T P Ruggiero 3/25/83
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FMEA NUMBER: 8-M-91

Interaction Number(s): V-8-232-3

Fire Zone: 14

Target Component(s)
Number, Description & Function:

1-1/2"-SWN-TCV-1113 (Air Operated)

TVC on the 3" SW discharge line from the Instrument Air Cooling Water Heat Exchangers #31 & #32. The discharge line dischargers to the discharge header 24" #405.

Postulated Failure Mode(s)
and Evaluation:

- M-4-(A) Failure of valve does not affect safety function. Manually operated
- M-5-(A) valve SWN-47 can be modulated to achieve the desired temperature in the discharge line.

X
Acceptable

/ 1 () 2 () 3 () 4 ()
Potentially Unacceptable/Safety Function Affected

R Copra 2/25/83
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
I-8-18-7	8-I-1-A		NR				NR
I-8-24-3	8-I-2-A		NR				NR
I-8-26-3	8-I-3-P		59A-019-A				NR
I-8-27-3	8-I-4-P		59A-019-A				NR
I-8-28-3	8-I-5-P		59A-019-A				NR
I-8-29-3	8-I-6-P		59A-019-A				NR
I-8-30-1	8-I-7-P		59A-004-A				NR
* I-8-30-2	8-I-7-P		59A-028-P				NA
I-8-30-3	8-I-7-P		59A-019-A				NR
I-8-31-1	8-I-8-P		59A-004-A				NR
* I-8-31-2	8-I-8-P		59A-028-A				NA
I-8-31-3	8-I-8-P		59A-019-A				NR
I-8-32-3	8-I-9-P		59A-019-A				NR
I-8-33-3	8-I-10-P		59A-019-A				NR
I-8-34-3	8-I-11-P		59A-019-A				NR
I-8-35-3	8-I-12-P		59A-019-A				NR
* I-8-36-2	8-I-13-P		59A-002-P				NA

- NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.
 2) NR - Evaluation is Not Required since interaction is now acceptable.
 3) NA - Type of evaluation is not applicable to this interaction.
 4) Disposed of by repair in AFW pump building.
 * Unacceptable by all 3 types of evaluation.

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
* I-8-36-3	8-I-13-P		59A-002-P				NA
* I-8-36-4	8-I-13-P		59A-005-P				NA
* I-8-37-2	8-I-14-P		59A-002-P				NA
* I-8-37-3	8-I-14-P		59A-002-P				NA
* I-8-37-4	8-I-14-P		59A-005-P				NA
* I-8-38-2	8-I-15-P		59A-002-P				NA
* I-8-38-3	8-I-15-P		59A-002-P				NA
* I-8-38-4	8-I-15-P		59A-005-P				NA
* I-8-39-2	8-I-16-P		59A-002-P				NA
* I-8-39-3	8-I-16-P		59A-002-P				NA
* I-8-39-4	8-I-16-P		59A-005-P				NA
* I-8-40-2	8-I-17-P		59A-002-P				NA
* I-8-40-3	8-I-17-P		59A-002-P				NA
* I-8-40-4	8-I-17-P		59A-005-P				NA
I-8-62-1	8-I-18-A			NR			NR
I-8-62-2	8-I-18-A			NR			NR
I-8-62-3	8-I-18-A			NR			NR

- NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.
 2) NR - Evaluation is Not Required since interaction is now acceptable.
 3) NA - Type of evaluation is not applicable to this interaction.
 4) Disposed of by repair in AFW pump building.
 * Unacceptable by all 3 types of evaluation.

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3
 SYSTEMS INTERACTION STUDY
 TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
I-8-63-1	8-I-19-A		NR				NR
I-8-63-2	8-I-19-A		NR				NR
I-8-63-3	8-I-19-A		NR				NR
I-8-64-4	8-I-20-A		NR				NR
I-8-64-5	8-I-20-A		NR				NR
I-8-65-4	8-I-21-A		NR				NR
I-8-65-5	8-I-21-A		NR				NR
I-8-66-1	8-I-22-A		NR				NR
I-8-66-2	8-I-22-A		NR				NR
I-8-66-3	8-I-22-A		NR				NR
I-8-67-1	8-I-23-A		NR				NR
I-8-67-2	8-I-23-A		NR				NR
I-8-67-3	8-I-23-A		NR				NR
I-8-68-1	8-I-24-A		NR				NR
I-8-68-2	8-I-24-A		NR				NR
I-8-68-3	8-I-24-A		NR				NR
I-8-69-1	8-I-25-A		NR				NR

- NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.
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 3) NA - Type of evaluation is not applicable to this interaction.
 4) Disposed of by repair in AFW pump building.
 * Unacceptable by all 3 types of evaluation.

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
I-8-69-2	8-I-25-A		NR				NR
I-8-69-3	8-I-25-A		NR				NR
I-8-71-2	8-I-26-A		NR				NR
I-8-72-2	8-I-27-A		NR				NR
I-8-73-2	8-I-28-A		NR				NR
I-8-74-2	8-I-29-A		NR				NR
I-8-75-1	8-I-30-A		NR				NR
I-8-76-1	8-I-31-A		NR				NR
I-8-77-1	8-I-32-A		NR				NR
I-8-78-1	8-I-33-A		NR				NR
I-8-79-1	8-I-34-A		NR				NR
I-8-80-1	8-I-35-A		NR				NR
I-8-81-1	8-I-36-A		NR				NR
I-8-82-1	8-I-37-A		NR				NR
I-8-83-1	8-I-38-A		NR				NR
I-8-84-1	8-I-39-A		NR				NR
I-8-85-1	8-I-40-A		NR				NR

- NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
I-8-86-1	8-I-41-A		NR			NR	
I-8-87-1	8-I-42-A		NR			NR	
I-8-87-2	8-I-42-A		NR			NR	
I-8-88-1	8-I-43-A		NR			NR	
I-8-88-2	8-I-43-A		NR			NR	
* I-8-90-4	8-I-44-P		36A-002-P			NA	
* I-8-92-4	8-I-45-P		36A-002-P			NA	
* I-8-93-4	8-I-46-P		36A-002-P			NA	
* I-8-94-4	8-I-47-P		36A-002-P			NA	
* I-8-95-1	8-I-48-P		36A-002-A			NA	
I-8-95-2	8-I-48-P		36A-001-A			NA	
* I-8-95-3	8-I-48-P		36A-003-P			NA	
* I-8-96-1	8-I-49-P		36A-002-P			NA	
I-8-96-2	8-I-49-P		36A-001-A			NA	
* I-8-96-3	8-I-49-P		36A-003-P			NA	
* I-8-97-1	8-I-50-P		36A-002-P			NA	
I-8-97-2	8-I-50-P		36A-001-A			NA	

- NOTES: 1) Letter following numbers mean; A - Acceptable, P - Potentially Unacceptable.
 2) NR - Evaluation is Not Required since interaction is now acceptable.
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
* I-8-97-3	8-I-50-P		36A-003-P				NA
* I-8-98-1	8-I-51-P		36A-002-P				NA
I-8-98-2	8-I-51-P		36A-001-A				NA
* I-8-98-3	8-I-51-P		36A-003-P				NA
* I-8-99-1	8-I-52-P		36A-002-P				NA
I-8-99-2	8-I-52-P		36A-001-A				NA
* I-8-99-3	8-I-52-P		36A-003-P				NA
* I-8-100-1	8-I-53-P		36A-002-P				NA
I-8-100-2	8-I-53-P		36A-001-A				NA
* I-8-100-3	8-I-53-P		36A-003-P				NA
* I-8-101-1	8-I-54-P		36A-003-P				NA
I-8-101-2	8-I-54-P		36A-001-A				NA
* I-8-101-3	8-I-54-P		36A-001-A				NA
* I-8-102-1	8-I-55-P		36A-002-P				NA
I-8-102-2	8-I-55-P		36A-001-A				NA
* I-8-102-3	8-I-55-P		36A-003-P				NA
* I-8-103-1	8-I-56-P		36A-002-P				NA

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INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
I-8-103-2	8-I-56-P		36A-001-A				NA
* I-8-103-3	8-I-56-P		36A-003-P				NA
* I-8-104-1	8-I-57-P		36A-002-P				NA
I-8-104-2	8-I-57-P		36A-001-A				NA
* I-8-104-3	8-I-57-P		36A-003-P				NA
I-8-105-1	8-I-58-A		NR				NR
I-8-105-2	8-I-58-A		NR				NR
I-8-106-1	8-I-59-A		NR				NR
I-8-106-2	8-I-59-A		NR				NR
* I-8-107-1	8-I-60-P		NA				NA
* I-8-108-1	8-I-61-P		NA				NA
* I-8-109-1	8-I-62-P		NA				NA
* I-8-110-1	8-I-63-P		NA				NA
* I-8-111-1	8-I-64-P		NA				NA
* I-8-112-1	8-I-65-P		NA				NA
* I-8-113-1	8-I-66-P		NA				NA
* I-8-114-1	8-I-67-P		NA				NA

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3
SYSTEMS INTERACTION STUDY
TABULATION OF POTENTIALLY UNACCEPTABLE SPATIAL INTERACTIONS

SERVICE WATER SYSTEM

I & C

POTENTIALLY UNACCEPTABLE INTERACTION NUMBER	FMEA		EIC		SPAN EVALUATION		
	(1)	(2)	(1)	(2)	(1)	(2)	(3)
* I-8-115-1	8-I-68-P		NA				NA
* I-8-116-1	8-I-69-P		NA				NA
* I-8-117-1	8-I-70-P		NA				NA
* I-8-118-1	8-I-71-P		NA				NA
* I-8-119-3	8-I-72-P		NA				NA
* I-8-119-4	8-I-72-P		NA				NA
* I-8-120-1	8-I-73-P		NA				NA
* I-8-120-2	8-I-73-P		NA				NA
I-8-121-1	8-I-74-A		NR				NR
I-8-121-2	8-I-74-A		NR				NR
I-8-122-1	8-I-75-A		NR				NR
I-8-122-2	8-I-75-A		NR				NR
I-8-123-1	8-I-76-A		NR				NR
I-8-124-1	8-I-77-A		NR				NR
I-8-127-1	8-I-78-A		NR				NR
I-8-128-1	8-I-79-A		NR				NR
I-8-131-1	8-I-80-A		NR				NR
I-8-132-1	8-I-81-A		NR				NR

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
MATRIX PREPARATION

SYSTEM NO 8

SYSTEM NAME SERVICE WATER

MATRIX CATEGORY

NON-CONNECTED

INTERCONNECTED X

W. Socratous 9/23/82
PREPARED BY/DATE

R Davens 9/23/82
APPROVED BY/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY (S) NONSAFETY (N)	POTENTIAL INTERACTION (IF APPLICABLE)
PI1193	V-SWN-58 (Pump #31)	S	
PI1192	V-SWN-58 (Pump #32)	S	
PI1191	V-SWN-58 (Pump #33)	S	
PI1273	V-SWN-58 (Pump #34)	S	
PI1274	V-SWN-58 (Pump #35)	S	
PI1275	V-SWN-58 (Pump #36)	S	
PT1190	PCV1295 118V AC Bus 34	S S	
PC1112A	PCV1295	S	
PC1112B	PCV1295	S	
PT1191	PCV1295 118V AC Bus 33	S S	
PC1111A	PCV1295	S	
PC1111B	PCV1295	S	
TI1308	6" - Line #1095	S	
TI1307	6" - Line #1094	S	
TI1306	6" - Line #1093	S	
TI1283	4" - Line #1098	S	
TI1282	4" - Line #1097	S	

M Socratous/9-15-82
 PREPARED BY/DATE

R Daverio/9-22-82
 APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
TI 1281	4" - Line #1096	S	
PC	V-SWN 113A	S	
	PCV 1297	S	
	Instrument Air	S	
PC	V-SWN 113B	S	
	PCV 1296	S	
	Instrument Air	S	
PI 1276	V-SWN 37	S	
TI 1314	3" - Line #1200	S	
PI 1277	V-SWN 37	S	
TI 1237	18" - Line #509	S	
TI 1238	18" - Line #405	S	
TI 1264	2" - Line #11	S	
RE 23	2" - Line #11	S	
	118V AC Bus 33	S	
RE 16	2" - Line #11	S	
	118V AC Bus 33	S	
TC 1111S	2" - Line #11	S	
FI 1112	3" - Line #11	S	

M Socratous/9-15-82
 PREPARED BY/DATE

R Daverio/9-22-82
 APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY(S) NONSAFETY(N)	POTENTIAL INTERACTION (IF APPLICABLE)
FT 1125	V-SWN-72 V-SWN-72 FC 1125S 118V AC, Bus #32	S S S S	
FT 1122	V-SWN-72 V-SWN-72 FC 1122S 118V AC Bus #33	S S S S	
TI 1236	10" - Line #12e	S	
TI 1235	10" - Line #12d	S	
FT 1121	V-SWN-72 V-SWN-72 FC 1121S 118V AC Bus #31	S S S S	
TI 1234	10" - Line #12b	S	
FT 1123	V-SWN-72 V-SWN-72 FC 1123S 118V AC Bus #31	S S S S	
TI 1233	10" - Line #12a	S	
FT 1124	V-SWN-72 V-SWN-72 FC 1124S 118V AC Bus #34	S S S S	
TI 1232	10" - Line #12c	S	

M Socratous/9-15-82
 PREPARED BY/DATE

R Daverio/9-22-82
 APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY (S) NONSAFETY (N)	POTENTIAL INTERACTION (IF APPLICABLE)
FI 7011	V-SWN-506	S	
	V-SWN-507	S	
FI 7010	V-SWN-513	S	
	V-SWN-512	S	
FI 7009	V-SWN-504	S	
	V-SWN-503	S	
FI 7008	V-SWN-510	S	
	V-SWN-509	S	
FI 7007	V-SWN-501	S	
	V-SWN-500	S	
FI 1130	4" - Line #494	S	
TI 1280	4" - Line #494	S	
TI 1239	18" - Line #406	S	
TI 1309	2" - Line #497	S	
TI 1310	2" - Line #498	S	
TI 1311	2" - Line #496	S	
TI 1312	2" - Line #495	S	
TI 1313	2" - Line #499	S	
TE 1203-1	TT 1203	S	
	118V AC Bus 32	S	

M Socratous/9-15-82
 PREPARED BY/DATE

R Daverio/9-22-82
 APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY

INTERFACING COMPONENTS

SAFETY RELATED COMPONENT	INTERFACING COMPONENTS	SAFETY (S) NONSAFETY (N)	POTENTIAL INTERACTION (IF APPLICABLE)
TE 1203-2	TT 1203	S	
	118V AC Bus 32	S	
TE 1203-3	TT 1203	S	
	118V AC Bus 32	S	
TE 1203-4	TT 1203	S	
	118V AC Bus 32	S	
TE 1203-5	118V AC Bus 32	S	
TT 1203	TE 1203-1	S	
	TE 1203-2	S	
	TE 1203-3	S	
	TE 1203-4	S	
	TE 1203-5	S	
	118V AC Bus 32	S	
TC 1113	2" - Line 1186	S	
	TCV 1113	S	
	Instrument Air	S	
FIC 1176	V-SWN-68	S	
	V-SWN-68	S	
	SOV-1274	S	
	SOV-1275	S	
	Instrument Air	S	
DPC 1134 S	V-SWN-68	S	
	V-SWN-68	S	

M. Socratous/9-15-82
 PREPARED BY/DATE

R. Daverio/9-22-82
 APPROVED BY/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
SYSTEMS INTERACTION EVALUATION

SYSTEM NO. I-8

SYSTEM NAME SERVICE WATER

EVALUATION CATEGORY

NON-CONNECTED _____

INTERCONNECTED X

No evaluations required

R Daverio 4/23/82
INTERACTION ENGINEER/DATE

W Griswold 9-29-82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
MATRIX PREPARATION

SYSTEM NO 8

SYSTEM NAME SERVICE WATER

MATRIX CATEGORY

NON-CONNECTED X

INTERCONNECTED _____

M. S. Socrates 9/22/82
PREPARED BY/DATE

R. Davini 9/22/82
APPROVED BY/DATE

Ebasco Services Incorporated

SOURCES

		NO INTERACTION													

I-8

1	TE 1203-1	X													

TARGETS



BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'

FIRE ZONE: 80A

LOCATION: QUAD I
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED
 DIV. I&C DR. MS
 DATE CH.
 SCALE NONE

APPROVED
 R.M. DAVERIO

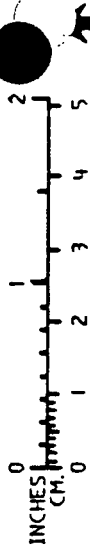
POWER AUTHORITY STATE OF NEW YORK
 INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

5209.003
 I-8
 SH 1 OF 25

SOURCES

TARGETS

I-8		NO INTERACTION																							
2	TE 1203-2	X																							



BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'

FIRE ZONE: 84A

LOCATION: QUAD II
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003	
DIV. <u>I&C</u> DR. <u>MS</u>	APPROVED		INDIAN POINT No. 3		I-8
DATE _____ CH. _____	R.M. DAVERIO		SYSTEMS INTERACTION STUDY		SH 2 OF 25
SCALE <u>NONE</u>			INTERACTION MATRIX		

SOURCES

I-8

NO INTERACTION

3 TE 1203-3

X

TARGETS

INCHES
CM
0 1 2 3 4 5

BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'

FIRE ZONE: 81A

LOCATION: QUAD III

WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED

DIV. I&C DR. MS

DATE _____ CH. _____

SCALE NONE

APPROVED

R.M. DAVERIO

POWER AUTHORITY STATE OF NEW YORK

INDIAN POINT No. 3

SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

5209.003

I-8

SH 3 OF 25

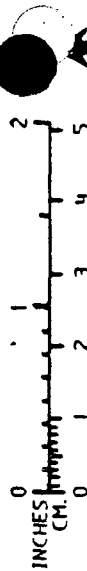
SOURCES

Grid table with columns for sources and rows for targets. Includes a 'NO INTERACTION' label in the first column.

I-8

Target identification column with one entry: 4 TE 1203-4

TARGETS



BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'

FIRE ZONE: 82A

LOCATION: QUAD III WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED

POWER AUTHORITY STATE OF NEW YORK

5209.003

DIV. I&C DR. MS. DATE CH. SCALE NONE

APPROVED

INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX

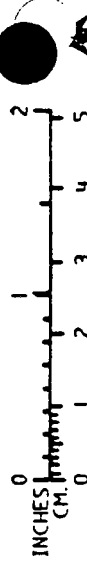
I-8 SH 4 OF 25

R M DAVERIO

SOURCES

TARGETS

I-8		NO INTERACTION																		
5	TE 1203-5	X																		



BUILDING: REACTOR CONTAINMENT BUILDING, EL. 68'
FIRE ZONE: 83A
LOCATION: QUAD IV
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE	CH.	R.M. DAVERIO		SH 5 OF 25
SCALE NONE				

INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

SOURCES

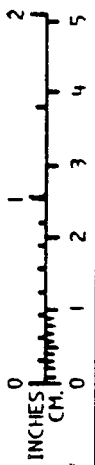
TARGETS

I-8		NO INTERACTION																		
6	TT 1203	X																		

BUILDING: REACTOR CONTAINMENT BUILDING, EL. 67'
FIRE ZONE: 85A
LOCATION: QUAD II
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

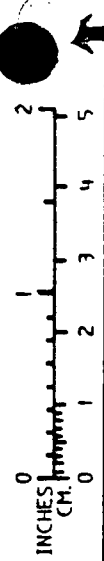
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C DR. MS	APPROVED		I-8	
DATE CH.	R.M. DAVERIO		SH 6 OF 25	
SCALE NONE			SYSTEMS INTERACTION STUDY INTERACTION MATRIX	



SOURCES

TARGETS

		NO INTERACTION																			
I-8	OFF 2" HEADER #11:																				
7	TI 1264	X																			
8	RE-16	X																			
9	RE-23	X																			
10	TC 1111S	X																			
11	FI 1112	X																			
12	FOR TCV 1104: SO V1170	X																			
13	AIRLINE FROM SOV1170 TO TCV1104	X																			
14	FOR TCV 1105: SOV1171	X																			
15	AIRLINE FROM SOV1171 TO TCV1105	X																			



BUILDING: PRIMARY AUXILIARY BUILDING
 FIRE ZONE: 62A
 LOCATION: PIPING PENETRATION TRENCH
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

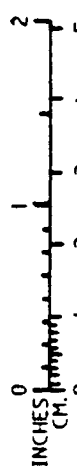
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. <u>I&C</u>	DR. <u>MS</u>	APPROVED		I-8
DATE _____	CH. _____	R.M. DAVERIO		SH 7 OF 25
SCALE <u>NONE</u>		INDIAN POINT No. 3		
		SYSTEMS INTERACTION STUDY		
		INTERACTION MATRIX		

SOURCES

I-8

			1	2	3	4	5	6	7					
		NO INTERACTION	CONDUIT	LIGHT	LIGHT	CONDUITS (THREE)	CONDUIT	CONDUIT	LIGHT					
16	OFF 10" 12c: TI1232							I68						
17	TI1232 SENSING LINE							I68						
18	OFF 10" 12d: TI1233							I69	I69					
19	TI1233 SENSING LINE							I69	I69					
20	OFF 10" 12b: TI 1234	X												
21	TI 1234 SENSING LINE	X												
22	OFF 10" 12d: TI 1235						I67							
23	TI 1235 SENSING LINE						I67							
24	OFF 10" 12e: TI 1236			I66	I66	I66								
25	TI 1236 SENSING LINE			I66	I66	I66								

TARGETS



BUILDING: FAN HOUSE
 FIRE ZONE: 88A
 LOCATION: _____
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE _____	CH. _____	BY: DAVERIO		SH 8 OF 25
SCALE NONE		INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX		

SOURCES

I-8

TARGETS

		1	2	3										
		NO INTERACTION	LIGHT	CONDUITS	CONDUIT									
	OFF 10" 12b:													
26	FT 1121 Lo P SENS. LINE				I63									
27	FT 1121 Hi P SENS. LINE				I63									
	OFF 10" 12d:													
28	FT 1122 Lo P SENS. LINE				I63									
29	FT 1122 Hi P SENS. LINE				I63									
	OFF 10" 12e:													
30	FT 1125 Lo P. SENS. LINE	I61	I61		I63									
31	FT 1125 Hi P. SENS. LINE	I61	I61		I63									
	OFF 10" 12c:													
32	FT 1124 Lo P SENSING LINE				I63									
33	FT 1124 Hi P SENS. LINE				I63									
	OFF 10" 12a													
34	FT 1123 Lo p SENS. LINE				I63									
35	FT 1123 Hi P SENS. LINE				I63									

INCHES
CM

BUILDING: PRIMARY AUXILIARY BUILDING,
 FIRE ZONE: 59A
 LOCATION: PIPING PENETRATION TRENCH
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED

POWER AUTHORITY STATE OF NEW YORK

5209.003

DIV. I&C DR. MS
 DATE CH.
 SCALE NONE

APPROVED
 R.M. DAVERIO

INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

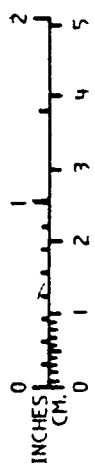
I-8
 SH 9 OF 25

SOURCES

I-8

			1	2	3	4	5							
		NO INTERACTION	CONDUIT	LINE #830	LINE #830	LINE #830A	TWO STATION AIR PIPES							
	AT RACK NO. 7:													
36	FT 1124	I63	I64	I64	I64	I64	I65							
37	FT 1123	I63	I64	I64	I64	I64	I65							
38	FT 1121	I63	I64	I64	I64	I64	I65							
39	FT 1122	I63	I64	I64	I64	I64	I65							
40	FT 1125	I63	I64	I64	I64	I64	I65							
	OFF 18" #406													
41	TI 1239	X												

TARGETS



BUILDING: PRIMARY AUXILIARY BUILDING, EL. 41'

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION TRENCH
WITHIN FIRE ZONE

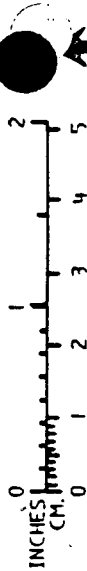
SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C DR. MS	APPROVED	INDIAN POINT No. 3		I-8
DATE CH.	R.M. DAVERIO	SYSTEMS INTERACTION STUDY		SH 10 OF 25
SCALE NONE		INTERACTION MATRIX		

SOURCES

TARGETS

		NO INTERACTION																
I-8																		
42	OFF 2" 495: TI 1312	X																
43	TI 1312 SENSING LINE	X																
44	OFF 2" 496: TI 1311	X																
45	TI 1311 SENSING LINE	X																
46	OFF 2" 497: TI 1309	X																
48	OFF 2" 498: TI 1310	X																
50	OFF 2" 499: TI 1313	X																
51	TI 1313 SENSING LINE	X																
52	FI 1130	X																
53	FI 1130 LO P. SENS. LINE	X																
55	TI 1280	X																
56	TI 1280 SENSING LINE	X																
47	TI 1309 SENSING LINE	X																
49	TI 1310 SENSING LINE	X																
54	FI 1130 SENSING LINE	X																



BUILDING: PRIMARY AUXILIARY BUILDING, EL. 51'

FIRE ZONE: 59A

LOCATION: PIPING PENETRATION TRENCH
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED

POWER AUTHORITY STATE OF NEW YORK

5209.003

DIV. I&C DR. MS
DATE CH.
SCALE NONE

APPROVED
R.M. DAVERIO

INDIAN POINT No. 3
SYSTEMS INTERACTION STUDY
INTERACTION MATRIX

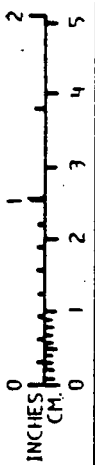
I-8
SH 11 OF 25

SOURCES

I-8

		NO INTERACTION																		
57	FI 7009	X																		
58	FI 7008	X																		
59	FI 7007	X																		
60	FI 7010	X																		
61	FI 7011	X																		

TARGETS



BUILDING: PRIMARY AUXILIARY BUILDING EL. 51'
FIRE ZONE: 59A
LOCATION: PIPING PENETRATION TRENCH
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

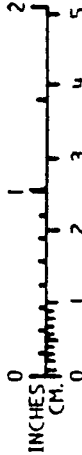
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C DR. MS	APPROVED	INDIAN POINT No. 3		I-8
DATE CH.	R.M. DAVERIO	SYSTEMS INTERACTION STUDY		SH 12 OF 25
SCALE NONE		INTERACTION MATRIX		

SOURCES

I-8

			1	2	3	4	5							
		NO INTERACTION												
	BY COMPONENT COOL, HEAT EXCH.													
	NO 32:													
62	OFF 18" #407 PI 1277		(I70)	(I71)	(I71)									
63	PI 1277 SENSING LINE		(I70)	(I71)	(I71)									
	BY COMPONENT COOL, HEAT EXCH.													
	NO 31:													
64	OFF 18" #411 PI 1276					(I72)	(I72)							
65	PI 1276 SENSING LINE					(I72)	(I72)							

TARGETS



BUILDING: PRIMARY AUXILIARY BUILDING, EL. 55'
FIRE ZONE: 17A
LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C DR. MS	APPROVED	INDIAN POINT No. 3		I-8
DATE _____ CH. _____	R.M. DAVERIO	SYSTEMS INTERACTION STUDY		SH 13 OF 25
SCALE NONE		INTERACTION MATRIX		

SOURCES

		1	2	3									
		NO INTERACTION	LIGHT	CONDUIT	AUX STEAM LINE 2" #560								
I-8	BY COMP. COOLING HEAT EXCH. NO. 32												
66	OFF 18" #405 TI 1237	I74 I75	I74 I75	I74									
67	TI 1237 SENSING LINE	I74 I75	I74 I75	I74									
68	OFF 18" #509 TI 1238	I74 I75	I74 I75	I74									
69	TI 1238 SENSING LINE	I74 I75	I74 I75	I74									

TARGETS



BUILDING: PRIMARY AUXILIARY BUILDING, EL. 73'
 FIRE ZONE: 27A
 LOCATION : _____
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. <u>I&C</u> DR. <u>MS</u>	APPROVED		INDIAN POINT No. 3	
DATE _____ CH. _____	R.M. DAVERIO		SYSTEMS INTERACTION STUDY	
SCALE <u>NONE</u>			INTERACTION MATRIX	
			I-8 SH 14 OF 25	

↑

SOURCES

I-8

		NO INTERACTION	1 THREE CONDUITS	2 STATION AIR PIPE												
	COOLING WATER HEAT EXCHANGERS															
*	OFF 2½" #1200															
71	TI 1314		I76	I77												
72	TI 1314 SENSING LINE		I76	I77												
73	TC 1113		I76 I78	I77												
74	TC 1113 SENSING LINE		I76 I78	I77												

← TARGETS →

INCHES
CM.

BUILDING: CONTROL BUILDING, EL. 15'

* ITEM 70 DELETED

FIRE ZONE: 14

LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. <u>I&C</u> DR. <u>MS</u>	APPROVED	INDIAN POINT No. 3		I-8
DATE _____ CH. _____	R.M. DAVERIO	SYSTEMS INTERACTION STUDY		SH 15 OF 25
SCALE <u>NONE</u>		INTERACTION MATRIX		



SOURCES

I-8

		1															
TARGETS		NO INTERACTION	LIGHTS (TWO)														
	DIESEL GENERATOR NO 31:																
75	OFF 6" #1096 TI 1281		(I88)														
76	TI 1281 SENSING LINE		(I88)														
77	OFF 6" #1093 TI 1306		(I88)														
78	TI 1306 SENSING LINE		(I88)														

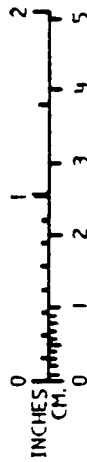
BUILDING: DIESEL GENERATOR BUILD. EL. 15'

FIRE ZONE: 10

LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE _____	CH. _____	R.M. DAVERIO		SH 16 OF 25
SCALE NONE		INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX		



TARGETS



SOURCES

I-8

			1														
TAR- GETS		NO INTERACTION	LIGHTS (TWO)														
	DIESEL GENERATOR																
	NO 32:																
79	OFF 6" 1097: TI 1282		(I87)														
80	TI 1282 SENSING LINE		(I87)														
81	OFF 6" #1094: TI 1307		(I87)														
82	TI 1307 SENSING LINE		(I87)														

BUILDING: DIESEL GENERATOR BUILD, EL. 15'
 FIRE ZONE: 101A
 LOCATION: _____
 WITHIN FIRE ZONE

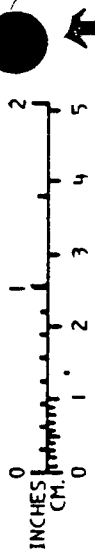
SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED
 DIV. I&C DR. MS
 DATE _____ CH. _____
 SCALE NONE

APPROVED
 R.M. DAVERIO

POWER AUTHORITY STATE OF NEW YORK
 INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

5209.003
 I-8
 SH 17 OF 25

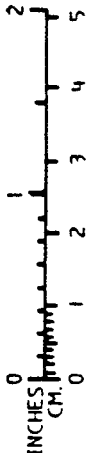


SOURCES

I-8

		1											
NO INTERACTION	LIGHTS (TWO)												
	DIESEL GENERATOR												
	NO 33:												
83	OFF 6" 1098: TI 1283	I85 I86											
84	OFF 6" 1095: SENSING LINE	I85 I86											
85	OFF 6" 1095: TI 1308	I85 I86											
86	TI 1308 SENSING LINE	I85 I86											

TARGETS



BUILDING: DIESEL GENERATOR BUILD. EL. 15'
FIRE ZONE: 102A
LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED DIV. <u>I&C</u> DR. <u>MS</u> DATE _____ CH. _____ SCALE <u>NONE</u>	APPROVED _____ R.M. DAVERIO	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX
5209.003 I-8 SH 18 OF 25		

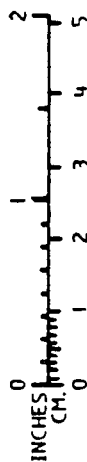


SOURCES

I-8

			1	2	3	4									
		NO INTERACTION	CONDUIT	WALL HEATER	CONDUITS (FOUR)	CONDUIT									
	SERVICE WATER TO CCR AC UNITS														
87	PC OFF: 1½" SWN 113B		I80 I81	I80 I81											
88	PC OFF: 1½" SWN 113A		I80 I81	I80 I81											
	SERVICE WATER EMERG. DIESEL														
	GENERATORS:														
89	OFF 10" 1096 FIC 1176				I82										
90	FIC 1176 LO P. SENSING LINE					I83									
91	DPC 1134C				I82										
92	DPC 1134C HI P. SENSING LINE					I83									
93	FIC 1176 HI P. SENSING LINE					I83									
94	DPC 1134C LO P. SENSING LINE					I83									

TARGETS



BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION: VALVE ROOM
WITHIN FIRE ZONE

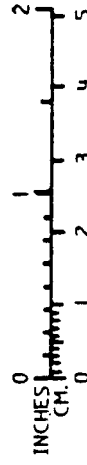
SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C DR. MS	APPROVED	INDIAN POINT No. 3		I-8
DATE CH.	R.M. DAVERIO	SYSTEMS INTERACTION STUDY		SH 19 OF 25
SCALE NONE		INTERACTION MATRIX		

SOURCES

TARGETS

		1	2	3														
		NO INTERACTION	CONDUIT	BOTTLES	WALL HEATER													
I-8																		
95	FOR FCV 1176A: SOV 1276A		I84	I84	I84													
96	AIRLINES FROM SOV1276A TO FCV1176A		I84	I84	I84													
97	FOR FCV 1176: SOV 1276		I84	I84	I84													
98	AIRLINES FROM SOV1276 TO FCV1176		I84	I84	I84													
99	SOV 1275		I84	I84	I84													
100	AIRLINE FROM FIC1176 TO SOV1275		I84	I84	I84													
101	AIRLINE FROM SOV1275 TO POS.		I84	I84	I84													
102	SOV 1274		I84	I84	I84													
103	AIRLINE FROM FIC1176 TO SOV1274		I84	I84	I84													
104	AIRLINE FROM SOV1274 TO POS.		I84	I84	I84													



BUILDING: CONTROL BUILDING, EL. 15'
FIRE ZONE: 36A
LOCATION : VALVE ROOM
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

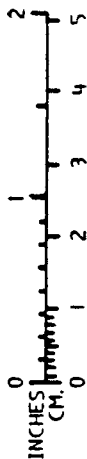
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE	CH.	R.M. DAVERIO		SH 20 OF 25
SCALE NONE		INTERACTION MATRIX		

SOURCES

I-8

		1	2												
		NO INTERACTION	LIGHT	CONDUITS (TWO)											
	OFF 1/2" SWN 113B:														
105	PI SENSING LINE		(I79)	(I79)											
	OFF 1/2" SWN 113A:														
106	PI SENSING LINE		(I79)	(I79)											

TARGETS



BUILDING: CONTROL BUILDING, EL. 15'
 FIRE ZONE: 14
 LOCATION: CORRIDOR OUTSIDE VALVE ROOM
 WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE	CH.	R.M. DAVERIO		SH 21 OF 25
SCALE NONE				

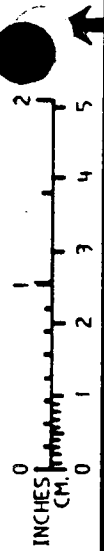
INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

SOURCES

I-8

TARGETS

		NO INTERACTION	TURBINE BLDG NON-SEISMIC AREA															
	ON RACK:																	
107	PT 1191		*															
108	PT 1191 SENSING LINE		*															
109	PC 1111A		*															
110	PC 1111A SENSING LINE		*															
111	PC 1111B S		*															
112	PC 1111B S SENSING LINE		*															
113	PT 1190		*															
114	PT 1190 SENSING LINE		*															
115	PC 1112A S		*															
116	PC 1112A S SENSING LINE		*															
117	PC 1112B S		*															
118	PC 1112B S SENSING LINE		*															



BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

*NO PICTURES, POSTULATE BUILDING FAILURE

LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

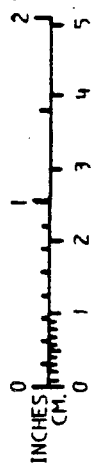
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE _____	CH. _____	R.M. DAVERIO		SH 22 OF 25
SCALE NONE		INDIAN POINT No. 3		
		SYSTEMS INTERACTION STUDY		
		INTERACTION MATRIX		

SOURCES

I-8

			1	2	3	4												
		NO INTERACTION	LIGHT	CONDUIT	LIGHT	CONDUIT												
	DOWNSTREAM OF CONNECTION OF																	
	HEADER 408 & BACK UP HEADER:																	
119	PT 1191 SENSING LINE				I90 I91	I90 I91												
	DOWNSTREAM OF CONNECTION OF																	
	HEADER 409 & BACK UP HEADER:																	
120	PT 1190 SENSING LINE		I89 I89	I89 I89														

TARGETS



BUILDING: VALVE PIT, AT INTAKE STRUCTURE
FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)
LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE _____	CH. _____	R.M. DAVERIO		SH 23 OF 25
SCALE NONE				

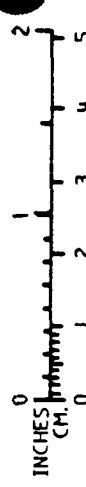
INDIAN POINT No. 3
 SYSTEMS INTERACTION STUDY
 INTERACTION MATRIX

SOURCES

I-8

			1	2														
		NO INTERACTION	8" SCREEN WASH HEADER	LIGHT														
	NUCLEAR PUMP #34																	
121	PI 1273		I94	I93														
122	PI 1273 SENSING LINE		I94	I93														
	NUCLEAR PUMP #35																	
123	PI 1274		I92															
124	PI 1274 SENSING LINE		I92															
	NUCLEAR PUMP #36																	
125	PI 1275	X																
126	PI 1275 SENSING LINE	X																

TARGETS



BUILDING: INTAKE STRUCTURE, EL. 9'
FIRE ZONE: 22
LOCATION:
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

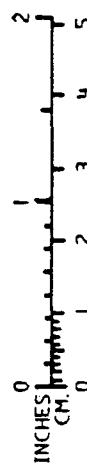
EBASCO SERVICES INCORPORATED		POWER AUTHORITY STATE OF NEW YORK		5209.003
DIV. I&C	DR. MS	APPROVED		I-8
DATE	CH.	R.M. DAVERIO		SH 24 OF 25
SCALE NONE		SYSTEMS INTERACTION STUDY INTERACTION MATRIX		

SOURCES

I-8

			1															
	PUMP NO 32:																	
127	PI 1192		(I96)															
128	PI 1192 SENSING LINE		(I96)															
	PUMP NO 31:																	
129	PI 1193	X																
130	PI 1193 SENSING LINE	X																
	PUMP NO 33:																	
131	PI 1191		(I95)															
132	PI 1191 SENSING LINE		(I95)															

TARGETS



BUILDING: INTAKE STRUCTURE, EL. 9'
FIRE ZONE: 22
LOCATION: _____
WITHIN FIRE ZONE

SERVICE WATER SYSTEM

EBASCO SERVICES INCORPORATED DIV. I&C DR. MS DATE _____ CH. _____ SCALE NONE	APPROVED R.M. DAVERIO	POWER AUTHORITY STATE OF NEW YORK INDIAN POINT No. 3 SYSTEMS INTERACTION STUDY INTERACTION MATRIX
		5209.003 I-8 SH 25 OF 25

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY

NON-CONNECTED INTERACTIONS EVALUATION

1. No Interaction - Source is Class II and is therefore supported adequately. (See response to IP-3 FSAR question 5.24).
2. Acceptable - Source pipe/conduit is equal size or smaller in diameter and/or the same thickness or thinner wall than the target pipe/conduit/tubing. Paragraph 6.2.2.1a Volume I.
3. Acceptable - Source has insufficient mass to damage the target component.
4. Acceptable - Basis is engineering judgement. Specific justification is on the evaluation form.
5. Potentially Unacceptable - Discussion of specific is on the evaluation form.
6. Potentially Unacceptable - Source pipe/conduit is large enough to damage target conduit/pipe/tubing.
7. Potentially Unacceptable - Source will fall a sufficient distance, or has adequate mass such that damage to target conduit/box/instrument/tubing/panel may be possible.
8. No Interaction - Upon further investigation of the source, this portion of its system is designated Seismic I.

R2 7/22/82
R1 6/30/82
R0 6/26/82

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
SYSTEMS INTERACTION EVALUATION

SYSTEM NO. 8

SYSTEM NAME SERVICE WATER

EVALUATION CATEGORY

NON-CONNECTED X

INTERCONNECTED

R Davern 9/21/82
INTERACTION ENGINEER/DATE

W Griswald 9.23.82
VERIFIED/DATE

Ebasco Services Incorporated

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-16-6

PHOTOGRAPH NO.: I68

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12C: TI 1232

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-17-6

PHOTOGRAPH NO.: I168

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1232 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-18-6

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12d : TI 1233

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-19-6

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1233 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-19-7

PHOTOGRAPH NO.: I 69

BACKGROUND NO.: Sheet 19

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1233 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 8&A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-23-5

PHOTOGRAPH NO.: I 67

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1235 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-24-2

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12e: TI 1236

SOURCE: LIGHT (WALL)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-24-3

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12e TI 1236

SOURCE: LIGHT (CEILING)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-24-4

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 12e: TI 1236

SOURCE: CONDUITS (THREE)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

R Daverio 9/2/82
INTERACTION ENGINEER/DATE

W Griswold 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 38A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-25-2

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1236 SENSING LINE

SOURCE: LIGHT (WALL)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: FAN HOUSE

FIRE ZONE: 88A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-25-3

PHOTOGRAPH NO.: I 66

BACKGROUND NO.: Sheet 20

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1236 SENSING LINE

SOURCE: LIGHT (CEILING)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 SYSTEMS INTERACTION STUDY
FAILURE MODES AND EFFECTS ANALYSIS
OF POTENTIALLY UNACCEPTABLE INTERACTIONS

FMEA NUMBER: 8-I-12

Interaction Number(s): I-8-35-3

Fire Zone: 59A

Target Component(s)

Number, Description & Function: FT 1123 HP Sensing Line

Containment recirc fan #33 service water outlet flow.

Postulated Failure Mode(s)
and Evaluation:

C-6-(P) See FMEA 8-I-3

_____ X / 1 () 2 () 3 () 4 (X)
Acceptable Potentially Unacceptable/Safety Function Affected

G Durniak 3/24/83
EVALUATING ENGINEER/DATE

J R Price 3/31/83
CHECKED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-28-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122 LO P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

_____ X _____
POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-29-3
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122 HI PSENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
 FIRE ZONE: 59A
 LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
 POTENTIAL INTERACTION NO.: I-8-30-1
 PHOTOGRAPH NO.: I 61
 BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 LOP. SENS. LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
 INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-30-2
PHOTOGRAPH NO.: I 61
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT. 1125 LOP. SENS. LINE

SOURCE: CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-30-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 LOP. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-31-1
PHOTOGRAPH NO.: I 61
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 HI P. SENS. LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-31-2
PHOTOGRAPH NO.: I 61
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 Hi P. SENS. LINE

SOURCE: CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-35-3
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125 HI P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-32-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124 LO P SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X

_____ POTENTIALLY
UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-33-3
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124 Hi P SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-34-3

PHOTOGRAPH NO.: I 63

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123 Lo P SENS LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-35-3
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123 Hi. P. SENS. LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
_____ VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-36-1
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-36-2
PHOTOGRAPH NO.: I-64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124
SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-36-3
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: LINE # 830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-36-4
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1124

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-36-5
PHOTOGRAPH NO.: I 65
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: F T 1124

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

 X ACCEPTABLE

~~_____ POTENTIALLY UNACCEPTABLE~~

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-37-1
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-37-2
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-37-3
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-37-4
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-37-5
PHOTOGRAPH NO.: I 65
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1123

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

 X ACCEPTABLE

 POTENTIALLY
 UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-38-1
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

~~_____ POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-38-2
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLEXPOTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

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INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-38-3
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

 X POTENTIALLY

UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-38-4
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-38-5

PHOTOGRAPH NO.: I 65

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1121

SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

 X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-39-2
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

<hr style="border: none; border-top: 1px solid black; margin-bottom: 5px;"/>	X	
ACCEPTABLE		POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82	W GRISWOLD	9/23/82
<hr style="border: none; border-top: 1px solid black; margin-top: 5px;"/>	<hr style="border: none; border-top: 1px solid black; margin-top: 5px;"/>	
INTERACTION ENGINEER/DATE	VERIFIED/DATE	

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING

FIRE ZONE: 59A

LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH

POTENTIAL INTERACTION NO.: I-8-39-3

PHOTOGRAPH NO.: I 64

BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

 ACCEPTABLE

 X
 POTENTIALLY
 UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-39-4
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122

SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-39-5
PHOTOGRAPH NO.: I 65
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1122
SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

X ACCEPTABLE

POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-40-5
PHOTOGRAPH NO.: I 63
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

 X ACCEPTABLE

_____ POTENTIALLY
_____ UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
_____ VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
 FIRE ZONE: 59A
 LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
 POTENTIAL INTERACTION NO.: I-8-40-2
 PHOTOGRAPH NO.: I 64
 BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125
 SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
 INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-40-3
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125
SOURCE: LINE #830 (Top & center arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-40-4
PHOTOGRAPH NO.: I 64
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125
SOURCE: LINE #830A (Bottom arrow)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILARY BUILDING
FIRE ZONE: 59A
LOCATION WITHIN FIRE ZONE: PIPING PENETRATION TRENCH
POTENTIAL INTERACTION NO.: I-8-40-5
PHOTOGRAPH NO.: I 65
BACKGROUND NO.: Sheet 16

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FT 1125
SOURCE: TWO STATION AIR PIPES (Top)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 8

 X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-62-1

PHOTOGRAPH NO.: I 70

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #407 PI 1277

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

_____ X _____
POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-62-2

PHOTOGRAPH NO.: I 71

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #407 PI 1277

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING
FIRE ZONE: 17A
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: I-8-63-1
PHOTOGRAPH NO.: I 70
BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1277 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

 ACCEPTABLE

X

 POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 X
W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-63-2

PHOTOGRAPH NO.: I 71

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1277 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-63-3

PHOTOGRAPH NO.: I 71

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1277 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-64-4

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #411 PI 1276

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-64-5

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #411 PI 1276

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-65-4

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1276 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 17A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-65-5

PHOTOGRAPH NO.: I 72, I 73

BACKGROUND NO.: Sheet 39

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1276 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-66-1

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #405 TI 1237

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-66-2

PHOTOGRAPH NO.: I 74, I75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #405 TI 1237

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-66-3

PHOTOGRAPH NO.: I 74

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #405 TI 1237

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-67-1

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO
9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-67-2

PHOTOGRAPH NO.: I 74, I75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-67-3

PHOTOGRAPH NO.: I 74.

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1237 SENSING LINE

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO

9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-68-2

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #509 TI 1238

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-68-3

PHOTOGRAPH NO.: I 74

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 18" #509 TI 1238

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-69-1

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1238 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-69-2

PHOTOGRAPH NO.: I 74, I 75

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1238 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
 INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: PRIMARY AUXILIARY BUILDING

FIRE ZONE: 27A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-69-3

PHOTOGRAPH NO.: I 74

BACKGROUND NO.: Sheet 46

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1238 SENSING LINE

SOURCE: AUX STEAM LINE 2" #560

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-71-1

PHOTOGRAPH NO.: I 76

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1314

SOURCE: THREE CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-71-2

PHOTOGRAPH NO.: I 77

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1314

SOURCE: STATION AIR PIPE

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
_____ VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL.15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-72-2

PHOTOGRAPH NO.: I 77

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1314 SENSING LINE

SOURCE: STATION AIR PIPE

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

_____ X _____
POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-73-1

PHOTOGRAPH NO.: I 76, I 78

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TC 1113

SOURCE: THREE CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-73-2

PHOTOGRAPH NO.: I 77

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TC 1113

SOURCE: STATION AIR PIPE

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-74-1

PHOTOGRAPH NO.: I 76, I 78

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TC 1113 SENSING LINE

SOURCE: THREE CONDUITS

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY
UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING EL, 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-74-2

PHOTOGRAPH NO.: I 77

BACKGROUND NO.: Sheet 67

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TC 1113 SENSING LINE

SOURCE: STATION AIR PIPE

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X

_____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-75-1

PHOTOGRAPH NO.: I 88

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" #1096 TI 1281

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
_____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-76-1

PHOTOGRAPH NO.: I 88

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 128I SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-77-1

PHOTOGRAPH NO.: I 88

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" #1093 TI 1306

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD, EL. 15

FIRE ZONE: 10

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-78-1

PHOTOGRAPH NO.: I 88

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1306 SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD, EL. 15'

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-79-1

PHOTOGRAPH NO.: I 87

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" 1097 TI 1282

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRIEWOLD 9/23/82
_____ VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD, EL. 15'

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-80-1

PHOTOGRAPH NO.: I 87

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1282 SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD., EL. 15'

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-81-1

PHOTOGRAPH NO.: I 87

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" #1094 TI 1307

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

\ BUILDING: DIESEL GENERATOR BUILD, EL.15⁺

FIRE ZONE: 101A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-82-1

PHOTOGRAPH NO.: I 87

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1307 SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUIL. EL. 15'

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-83-1

PHOTOGRAPH NO.: I 85, I 86

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" 1098 TI 1283

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

 ACCEPTABLE

X

 POTENTIALLY
 UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD

9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15'

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-84-1

PHOTOGRAPH NO.: I 85, I 86

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1283 SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15'

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-85-1

PHOTOGRAPH NO.: I 85, I 86

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 6" 1095 TI 1308

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: DIESEL GENERATOR BUILD. EL. 15'

FIRE ZONE: 102A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-86-1

PHOTOGRAPH NO.: I 85, I 86

BACKGROUND NO.: Sheet 76

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: TI 1308 SENSING LINE

SOURCE: LIGHTS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-87-1

PHOTOGRAPH NO.: I 80, I 81

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF $\frac{1}{2}$ " SWN 113B

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

·X

_____ POTENTIALLY
~~UNACCEPTABLE~~

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-87-2

PHOTOGRAPH NO.: 180, 181

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF. $\frac{1}{2}$ " SWN 113B

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-88-1

PHOTOGRAPH NO.: I 80, I 81

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF: 1/2" SWN 113A

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-88-2

PHOTOGRAPH NO.: I80, I 81

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC OFF: 1/2" SWN 113A

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-89-3

PHOTOGRAPH NO.: I 82

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: OFF 10" 1096 FIC 1176

SOURCE: CONDUITS (FOUR)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W. GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-90-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FIC 1176 LOP. SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

W GRISWOLD 9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-91-3

PHOTOGRAPH NO.: I 82

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: DPC 1134C

SOURCE: CONDUITS (FOUR)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 3

X ACCEPTABLE

~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-92-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: DPC 1134 H.P. SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-93-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FIC 1176 HiP, SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-94-4

PHOTOGRAPH NO.: I 83

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: DPC 1134 L LoP SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING EL. 15'
FIRE ZONE: 36A
LOCATION WITHIN FIRE ZONE: VALVE ROOM
POTENTIAL INTERACTION NO.: I-8-95-1
PHOTOGRAPH NO.: I 84
BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176A: SOV 1276A

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-95-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176A: SOV 1276A

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-95-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176A: SOV 1276A

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-96-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINES FROM SOV 1276A to FCV 1176A

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-96-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINES FROM SOV 1276A TO FCV 1176A

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-97-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176: SOV 1276

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL.15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-97-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: FOR FCV 1176: SOV 1276

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-98-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINES FROM SOV 1276 TO FCV 1176

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-98-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINES FRO SOV 1276 TO FCV 1176

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-98-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINES FRO SOV 1276 TO FCV 1176

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY

UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-99-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1275

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY

UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-99-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1275

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-99-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1275

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-100-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1275

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-100-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1275

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-100-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1275

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

 ACCEPTABLE

X

 POTENTIALLY
 UNACCEPTABLE

 R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

 W GRISWOLD 9/23/82
VERIFIED/DATE

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POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-101-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1275 TO POS.

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-101-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1275 TO ROS.

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82

W GRISWOLD

9/23/82

INTERACTION ENGINEER/DATE

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-101-3

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1275 TO POS.

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-102-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1274

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-102-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1274

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
 _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
 INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-102-3

PHOTOGRAPH NO.: I-84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: SOV 1274

SOURCE: WALL HEATER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY UNACCEPTABLE

R. DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W. GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-103-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1274

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

_____ X POTENTIALLY
UNACCEPTABLE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-103-2

PHOTOGRAPH NO.: I-84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM FIC 1176 TO SOV 1274

SOURCE: BOTTLES

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36 A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-104-1

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 82

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1274 TO POS

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 36A

LOCATION WITHIN FIRE ZONE: VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-104-2

PHOTOGRAPH NO.: I 84

BACKGROUND NO.: Sheet 85

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: AIRLINE FROM SOV 1274 TO POS

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDOR OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-105-1

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ACCEPTABLE

X
_____~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL. 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDOR OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-105-2

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: CONDUITS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X
_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-106-1

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: CONTROL BUILDING, EL 15'

FIRE ZONE: 14

LOCATION WITHIN FIRE ZONE: CORRIDER OUTSIDE VALVE ROOM

POTENTIAL INTERACTION NO.: I-8-106-2

PHOTOGRAPH NO.: I 79

BACKGROUND NO.: Sheet 66

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI SENSING LINE

SOURCE: CONDUITS (TWO)

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'
FIRE ZONE: 41A
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: I-8-107-1
PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE
BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191
SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE		X POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82		W GRISWOLD 9/23/82
INTERACTION ENGINEER/DATE		VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-108-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191 SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/21/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-109-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1111AS

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/21/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-110-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1111AS SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVIERO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-111-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1111B S

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-113-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82		W GRISWOLD 9/23/82
INTERACTION ENGINEER/DATE		VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-114-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

X POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-115-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1112 AS

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-116-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1112 AS SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

ACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

X

POTENTIALLY
~~UNACCEPTABLE~~

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-117-1

PHOTOGRAPH NO.: *NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1112 B S

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: TURBINE BUILDING, EL. 15'

FIRE ZONE: 41A

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-118-1

PHOTOGRAPH NO.: * NO PICTURES, POSTULATE BUILDING FAILURE

BACKGROUND NO.:

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PC 1112 BS SENSING LINE

SOURCE: TURBINE BLDG NON SEISMIC AREA

DESCRIPTION OF POSTULATED INTERACTION:

Building Failure

EVALUATION OF INTERACTION:

EVALUATION NOTE NO:

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: VALVE PIT, AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-119-3

PHOTOGRAPH NO.: I 90, I 91

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: VALVE PIT ~~AT~~ INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-119-4

PHOTOGRAPH NO.: I 90. I 91

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1191 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

X

_____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82

INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82

VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: VALVE PIT AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-120-1

PHOTOGRAPH NO.: I 89

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: Light

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: VALVE PIT AT INTAKE STRUCTURE

FIRE ZONE: NA (ADJACENT TO FIRE ZONE 22)

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-120-2

PHOTOGRAPH NO.: I 89

BACKGROUND NO.: Sheet 53

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PT 1190 SENSING LINE

SOURCE: CONDUIT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-121-1

PHOTOGRAPH NO.: I 94

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

X
_____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-121-2

PHOTOGRAPH NO.: I 93

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'
FIRE ZONE: 22
LOCATION WITHIN FIRE ZONE:
POTENTIAL INTERACTION NO.: I-8-122-1
PHOTOGRAPH NO.: I 94
BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-122-2

PHOTOGRAPH NO.: I 93

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1273 SENSING LINE

SOURCE: LIGHT

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE

X

POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-123-1

PHOTOGRAPH NO.: I 92

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1274

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9'

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-124-1

PHOTOGRAPH NO.: I 92

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1276 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-127-1

PHOTOGRAPH NO.: I 96

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1192

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

_____ ACCEPTABLE

_____ X _____ POTENTIALLY UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-128-1

PHOTOGRAPH NO.: I 96

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1192 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

_____ ACCEPTABLE

_____ X _____ POTENTIALLY
UNACCEPTABLE

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
 INDIAN POINT 3 NUCLEAR POWER PLANT
 SYSTEM INTERACTION STUDY
 NONCONNECTED SYSTEMS INTERACTION
 EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-131-1

PHOTOGRAPH NO.: I 95

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1191

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 7

ACCEPTABLE	X	POTENTIALLY UNACCEPTABLE
R DAVERIO 9/21/82 INTERACTION ENGINEER/DATE		W GRISWOLD 9/23/82 VERIFIED/DATE

POWER AUTHORITY OF THE STATE OF NEW YORK
INDIAN POINT 3 NUCLEAR POWER PLANT
SYSTEM INTERACTION STUDY
NONCONNECTED SYSTEMS INTERACTION
EVALUATION SHEET

BUILDING: INTAKE STRUCTURE, EL. 9

FIRE ZONE: 22

LOCATION WITHIN FIRE ZONE:

POTENTIAL INTERACTION NO.: I-8-132-1

PHOTOGRAPH NO.: I 95

BACKGROUND NO.: Sheet 80

IDENTIFICATION OF INTERACTION COMPONENTS:

TARGET: PI 1191 SENSING LINE

SOURCE: 8" SCREEN WASH HEADER

DESCRIPTION OF POSTULATED INTERACTION:

Source falls on target.

EVALUATION OF INTERACTION:

EVALUATION NOTE NO: 6

ACCEPTABLE

X ~~POTENTIALLY UNACCEPTABLE~~

R DAVERIO 9/21/82
INTERACTION ENGINEER/DATE

W GRISWOLD 9/23/82
VERIFIED/DATE